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# JAMECO<sup>®</sup>

## ELECTRONICS

Catalog 112  
June 2011

***Designed with Energy in Mind***





## Panel Mount Indicators (LED, Incandescent, Neon)

★ Web Code: SOL

NEW  
MARKED IN PINK

These bright indicator lights come equipped with quick and easy connections. They come in many different types for your specific needs.

• 14/125/250/277/480 volts • 0.187"/0.250" tabs; stripped and tin wires termination • Colors: red, amber, green, blue or white • UL/CUL/TUV/CE approved



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9

Part No.	Mfr. Part No.	Fig	Color	Voltage (V)	Mounting Hole	Type	Termination	1	10	100
2126467	1912-X-00-342-10	1	Red	14	0.312"	LED	15" white wires	\$.99	\$.89	\$.79
2126475	1912-X-00-342-11	1	Red	14	0.312"	LED	15" black wires	.99	.89	.79
2129511	2935-1-12-393-1	2	Red	14	0.51"	Incandescent	6" wires	1.49	1.25	1.09
2129414	3335-4-50-183-A	3	Red (oil indicator)	14	0.375" x 1.28"	Incandescent	0.250" tabs	.99	.89	.79
2129457	3335-4-50-183-A-1001	3	Red (temp indicator)	14	0.375" x 1.38"	Incandescent	0.250" tabs	.99	.89	.79
2126504	4312-1-20-010-10	4	Red	14	0.173"	LED	6" wires	.69	.59	.49
2126432	KE12-4-03-01010	5	Red (translucent lens)	14	0.63"	LED	0.250" tabs	.99	.89	.79
2129406	3435-4-50-193	6	Amber/Green (R/N indicator)	14	0.375" x 1.28"	Incandescent	0.250" tabs	.99	.89	.79
2126424	KE12-4-03-01020	5	Amber (translucent lens)	14	0.63"	LED	0.250" tabs	.99	.89	.79
2126491	4312-1-20-010-40	4	Green	14	0.173"	LED	6" wires	.69	.59	.49
2126416	KE12-4-03-01040	5	Green (translucent lens)	14	0.63"	LED	0.250" tabs	.99	.89	.79
2126408	KE12-4-03-01050	5	Blue (translucent lens)	14	0.63"	LED	0.250" tabs	.99	.89	.79
2126395	KE12-4-03-01060	5	White (translucent lens)	14	0.63"	LED	0.250" tabs	.99	.89	.79
2126387	KE12-4-03-050P0	5	Pure white (clear lens)	14	0.63"	LED	0.250" tabs	.99	.89	.79
2126184	1850-1-10-201-11	7	Red	125	0.312"	Neon	6 7/8" wires	1.95	1.75	1.49
2126483	2415-3-12-216-1	8	Red	125	0.312"	LED	0.187" tabs	1.49	1.25	1.09
2129449	2450-3-12-226-1	8	Red	125	0.312"	Neon	0.187" tabs	1.49	1.25	1.09
2126150	2850-1-12-393-1	2	Red	125	0.51" (0.94"L)	Neon	6" wires	1.49	1.25	1.09
2129529	2850-1-12-393-1-R	2	Red	125	0.50" (1.28"L)	Neon	6" wires	1.49	1.25	1.09
2129537	3550-1-00-236-1	9	Red	125	0.375"	Neon	6 1/2" wires	.99	.89	.79
2129481	6050-1-00-266-1	10	Red (w/ red lens cap)	125	0.81"	Neon	8" wires	.99	.89	.79
2129465	6050-1-00-490-0	10	Amber (w/o lens cap)	125	0.81"	Neon	7" wires	.99	.89	.79
2126168	2850-1-12-393-2	2	Amber	125	0.51"	Neon	6" wires	1.49	1.25	1.09
2129490	3350-1-40-183-B	11	Amber (heat indicator)	125	0.375" x 1.28"	Neon	6" wires	.99	.89	.79
2129422	3350-4-50-183-B	3	Amber (heat indicator)	125	0.375" x 1.28"	Neon	0.250" tabs	.99	.89	.79
2126176	2850-1-12-393-4	2	Green	125	0.51"	Neon	6" wires	1.49	1.25	1.09
2129502	3452-1-40-193-A	12	Red (1 / 2 indicator)	250	0.375" x 1.28"	Neon	8" wires	.99	.89	.79
2129545	4416-1-20-010-1	13	Red	250	0.250"	LED	9" wires	.59	.49	.35
2129473	1052-1-00-266-4	10	Green (w/ green lens cap)	250	0.81"	Neon	8" wide	.99	.89	.79
2129431	3052-3-12-393-4	14	Green	250	0.54"	Neon	0.187" tabs	1.95	1.75	1.49
2126512	2954-X-11-373-10	15	Red	480	0.50"	Neon	15" wires	.99	.89	.79

### Neon Bulbs

Part No.	Mfr. Part No.	Fig	Description	1	10	100
2129553	9950-X-00-00000-0002	16	125V Neon bulb with 46k resistor, 2" wires	\$.49	\$.45	\$.35
2129570	9950-X-00-00000-0003	17	125V Neon bulb with 220k resistor, 1 1/2" wires	.49	.45	.35
2129561	9953-X-00-00000-0001	18	277V Neon bulb with 120k resistor, 2" wires	.49	.45	.35

Additional Panel Mount Indicators on page 35



## Assembled Flex-Lite Colored LED Cables

- Assembled Flex-Lite LED cable kits (5' or 6' lengths) • Various voltages: 12VDC, 24VDC or 110 Volts
- Sealed LEDs in clear flexible silicon gel • Includes power supply, power cable and mounting hardware
- Various colors: red, warm white, green, yellow, blue, amber • Applications: lighting art, accent lighting, under lighting, bookshelves, cupboards, drawers, coin operated machines, trade show exhibit displays

Just  
plug It In



### Square 0.41" x 0.50" (6 ft.)

Part No.	Mfr. Part No.	Color	Voltage	Length	mcd/ft.	Price
2131514	RL-12F-08-ASSBLY	Yellow	12VDC	6'	7200	\$59.95
2131522	RL-13F-06-ASSBLY	Warm white	24VDC	6'	81000	59.95
2131602	RL-15F-05-ASSBLY	Blue	110 Volts	6'	3960	59.95

### Round 0.50" diameter (5 or 6 ft.)

Part No.	Mfr. Part No.	Color	Voltage	Length	mcd/ft.	Price
2131661	RL-12R-01-ASSBLY	Red	12VDC	6'	5400	\$69.95
2131696	RL-13R-06-ASSBLY	Warm white	24VDC	6'	81000	69.95
2131768	RL-15R-05-ASSBLY	Yellow	110 Volts	5'	7200	59.95

Light Off

Red (Light On)



## Radio Frequency ID Lab

This RFID design lab is a great way to learn the basics of how RFID works. It will automatically read, detect and verify user identification data within the first SEEPROM. At the same time it will automatically store the date and time as a login record into the second SEEPROM. If there is no record of the UID in the database, it will generate a red light and sound a buzzer.

- LP-2010 TRF7960 induction board • RS-232 or USB interface for RFID Chip-Board • Glass breaking detector module & sensor for door control
- Two individual relays with connectors for open and closed operation • Solenoid for emulating locked control

Includes: ISO 14443A and ISO 15693 RFID tags, power cable, USB type A to USB type B cable, CD with demo program and user's manual

Part No.	Mfr. Part No.	Description	Size (W x D x H)	1	5
2128104	LP-2010	Radio Frequency ID Lab w/ Keypad & 16 x 2 LCD Monitor	12.8" x 9" x 3.5"	\$549.95	\$524.95

NEW  
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More RFID Lab products on page 162

# Green Energy: A New Beginning

Founded in 1853, the California Academy of Sciences in San Francisco, California, embarked on a complete renovation of their museum in 2008. The museum's redesign, included an actual living roof. The 2.5 acre expanse is comprised of 1.7 million native plants that were chosen because of their ability to thrive in the local climate. The living roof was designed to significantly reduce the energy required to both heat and cool the building. So much so that it claims to be the world's greenest museum.

The six inches of soil substrate on the roof act as insulation and the sloping mounds act as a natural ventilation system with sky lights that automatically open to vent hot air on warm days. Along the edges of the building you can see a large glass canopy made from 60,000 photovoltaic cells whose 213,000 kilowatt hours a year provide 10% of the Academy's electricity needs. There's more on why we featured this cover...

Amazingly the photo itself was taken from a camera mounted to an 8-foot Rokkaku kite flying 250 feet above the museum. Attached to the kite line was a camera rig with a controller that automatically panned, tilted and triggered the camera every 8 to 10 seconds.

This cover also says a lot about what we're seeing with Jameco customers. Two interesting trends have emerged. Customers are increasingly focusing their designs on reducing energy requirements, and we've seen a surge in interest for electronics as a hobby. This catalog reflects both trends with new kits perfect for hobbyists and everything from LED lighting to solar energy.



Photographer Michael Layefsky with the kite he used to take the cover photo.

**Can Forrest M. Mims III stump you with his latest puzzler on page 99 | Get your next DIY project started... see page 80**

## The Jameco Difference

### Customer Service

Our customers are telling us they notice a big difference when they compare Jameco to other component distributors. We've always tried to offer personal service, but only recently realized we apparently do this better than many others. At the end of the day the e-mail address [Management@Jameco.com](mailto:Management@Jameco.com) is your guarantee that you'll get what you expect. We certainly aren't perfect, but we'll always respond and do everything we can to quickly fix your requests.



### Catalog & Web Integration

Jump from catalog to website without having to search. Every catalog module has its own Web Code. When you enter that Web Code on the Jameco.com website, you instantly jump to the same products with more selection, more information and the latest pricing and availability information.



### Pricing

**Name Brands**   **House Brands**   **Factory Overrun Inventory**

We are franchised with over 150 different brands and actively set our pricing below our competition, but what sets us apart is that we carry both house brands and factory overrun inventory as well. Save money with every product you buy, but you can accelerate that savings if you have brand flexibility. If you ever see a published price for stocked product that is higher than Jameco, call us and we'll beat that price all the way down to our cost. See page 189 for details.

### Newsletter

Jameco's newsletter is rich with projects, puzzles and educational material that make electronics fun again. Go to [www.Jameco.com/GotMail](http://www.Jameco.com/GotMail) and give us your e-mail address. We promise to entertain you. And it's free!



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Please refer to data sheets at [www.Jameco.com](http://www.Jameco.com) for more detailed illustrations and specifications



## 7400 Series

\*Web Code: XAG

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
48979	♦	7400N**	DIP-14	Quad 2-input pos. NAND gate .....	\$1.29	\$1.15	\$.95
910901	TI	SN7400N	DIP-14	Quad 2-input pos. NAND gate .....	1.35	1.19	1.05
49007	♦	7401N	DIP-14	Quad 2-input NAND gate (O.C.) .....	.99	.89	.79
49015	♦	7402N*	DIP-14	Quad 2-input pos. NOR gate .....	1.55	1.39	1.09
49040	♦	7404N**	DIP-14	Hex inverter .....	1.49	1.35	1.09
49074	♦	7405N*	DIP-14	Hex inverter (O.C.) .....	.69	.59	.45
49091	♦	7406N**	DIP-14	Hex inverter buffer/driver .....	.95	.85	.65
49120	♦	7407N**	DIP-14	Hex buffer/driver .....	.95	.85	.65
49146	♦	7408N*	DIP-14	Quad 2-input pos. AND gate .....	2.25	2.05	1.85
49189	♦	7410N*	DIP-14	Triple 3-input pos. NAND gate .....	.99	.89	.79
49402	♦	7413N	DIP-14	Dual 4-input pos. NAND gate .....	1.25	1.15	1.05
49437	♦	7414N*	DIP-14	Hex schmitt-trigger inverter .....	.99	.89	.79
49630	♦	7416N*	DIP-14	Hex inverter buffer/driver (O.C.) .....	1.29	1.15	.95
49728	♦	7417N*	DIP-14	Hex buffer/driver (O.C. hi-volt) .....	1.29	1.15	.89
50008	♦	7420N*	DIP-14	Dual 4-input NAND gate .....	.99	.89	.75
50139	♦	7427N*	DIP-14	Triple 3-input NOR gate .....	.89	.79	.69
50227	♦	7430N*	DIP-14	8-input NAND gate .....	.99	.89	.79
50235	♦	7432N*	DIP-14	Quad 2-input pos. OR gate .....	1.45	1.29	1.05
50315	♦	7438N*	DIP-14	Quad 2-input NAND buffer .....	.99	.89	.79
50374	♦	7442N	DIP-16	4-line BCD to 10 line decimal decoder .....	1.95	1.75	1.49
50403	♦	7445N	DIP-16	BCD-to-decimal decoder/driver .....	1.75	1.49	1.25
50420	♦	7447N*	DIP-16	BCD-to-7 seg. decoder/driver .....	2.25	2.05	1.75
50526	♦	7472N	DIP-14	AND-gated J-K master-slave flip-flop .....	.89	.79	.69
50534	♦	7473N	DIP-14	Dual J-K neg-edge-triggered flip-flop .....	1.95	1.75	1.59
50551	♦	7474N**	DIP-14	Dual D type flip-flop .....	1.29	1.19	1.09
50577	♦	7475N	DIP-16	4-bit bistable latch .....	2.75	2.49	2.25
50593	♦	7476N	DIP-16	Dual J-K pos-edge-triggered flip-flop .....	2.95	2.65	2.39
50631	♦	7483N	DIP-16	4-bit binary full adder .....	2.95	2.65	2.39
50657	♦	7485N*	DIP-16	4-bit magnitude comparator .....	2.49	2.25	1.95
50665	♦	7486N	DIP-14	Quad 2-input exclusive OR gate .....	2.25	2.09	1.95
50681	♦	7489N	DIP-16	64-bit read/write memory .....	3.95	3.75	3.49
50690	♦	7490N	DIP-14	Asynchronous decade counter .....	2.95	2.65	2.39
50745	♦	7493N	DIP-14	4-bit binary counter .....	1.95	1.75	1.49
50770	♦	7495N	DIP-14	4-bit parallel-access shift register .....	1.75	1.49	1.25
49234	♦	74107N*	DIP-14	Dual J-K flip-flop with clear .....	.79	.69	.59
49322	♦	74121N*	DIP-14	Monostable multivibrator .....	2.75	2.39	1.95
49357	♦	74123N*	DIP-16	Dual monostable multivibrator .....	2.95	2.75	2.25
49373	♦	74125N	DIP-14	Tri-state quad bus buffer .....	1.49	1.35	1.19
49496	♦	74148N	DIP-16	8-to-3 line priority encoder .....	1.19	1.09	.79
49509	♦	74150N	DIP-24	1-of-16 data selector/multiplexer .....	3.25	2.95	2.75
49525	♦	74151N*	DIP-16	1-of-8 data selector/multiplexer .....	.79	.69	.45
49550	♦	74153N*	DIP-16	Dual 4-to-1 data selector/multiplexer .....	1.19	1.09	.79
49568	♦	74154N	DIP-24	4-to-16 line decoder/demultiplexer .....	2.95	2.39	2.09
49605	♦	74157N*	DIP-16	Quad 2-to-1 line data selector .....	.99	.89	.79
49648	♦	74160N*	DIP-16	Synchronous decade counter .....	.79	.69	.59
49664	♦	74161N	DIP-16	4-bit synchronous binary counter .....	.89	.79	.69
49672	♦	74163N	DIP-16	4-bit synchronous binary counter .....	.89	.79	.69
49681	♦	74164N	DIP-14	8-bit serial shift register .....	.89	.79	.59
49699	♦	74165N	DIP-16	8-bit serial shift register, parallel load .....	.49	.45	.39
49779	♦	74174N*	DIP-16	Hex D-type flip-flop with clear .....	.69	.59	.49
49795	♦	74175N*	DIP-16	Quad D-type flip-flop with clear .....	1.35	1.25	1.15
49832	♦	74180N	DIP-14	9-bit odd/even parity generator/checker .....	.39	.35	.25
49883	♦	74189N	DIP-16	Tri-state 64-bit RAM .....	2.95	2.75	2.49
49904	♦	74191N	DIP-16	Synch. 4-bit up/down binary counter .....	1.95	1.75	1.45
49912	♦	74192N	DIP-16	Synch. 4-bit up/down decade counter .....	3.95	3.75	3.49
49939	♦	74193N	DIP-16	Synch. 4-bit up/down binary counter .....	2.95	2.75	2.49
49955	♦	74194N	DIP-16	4-bit bi-directional shift register .....	1.95	1.75	1.49
49963	♦	74195N	DIP-16	4-bit parallel-access shift register .....	1.75	1.55	1.35
50171	♦	74279N*	DIP-16	Quad set-reset latch .....	1.75	1.49	1.25

\*10 pcs./ \*\*20 pcs. in 7400 series IC cabinet kit, top right

## TTL Logic Data Book (1988)

Texas Instruments Contains specifications and technical information on a broad line of TTL integrated circuits including Schottky TTL circuits. (1240 pages)

\* Size: 6.0" x 8.5"



Part No.	Description	Wt. (lbs.)	1	5
88225	TTL Logic Data Book	2.6	\$34.95	\$29.95

## 7400 Series IC Kit

Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 163 and 30 adhesive labels for drawers to identify parts in kit

10 each: 7402, 7405, 7408, 7410, 7414, 7416, 7417, 7420, 7427, 7430, 7432, 7438, 7447, 7485, 74107, 74121, 74123, 74132, 74151, 74153, 74157, 74160, 74174, 74175, 74279

20 each: 7400, 7404, 7406, 7407, 7474



SAVE \$184

Part No.	Description	Wt. (lbs.)	1	5
84953	350 pcs. 7400 IC kit	6.2	\$249.95	\$229.95

\*Web Code: CBA

## 74ABT/AC/ACT/AHC Series

Please Note: Manufacturer may vary

\* Order in multiples of 10

Part No.	Product No.	Pkg.	Description	1	10	100
266159	74ACT08M	SOIC-14	Quad 2-input pos. AND gate .....	* .07	* .07	* .05
211983	74ACT08N	DIP-14	Quad 2-input pos. AND gate .....	* .07	* .07	* .05
264145	74ACT10M	DIP-14	Triple 3-input pos. NAND gate .....	* .09	* .09	* .06
238887	74ACT10N	DIP-14	Triple 3-input pos. NAND gate .....	.29	.25	.19
212003	74ACT32N	DIP-14	Quad 2-input pos. OR gate .....	* .07	* .07	* .05
212011	74ACT74N	DIP-14	Dual D type flip-flop .....	* .07	* .07	* .05
238730	74AC139N	DIP-16	Dual 2-to-4 decoder/demultiplexer .....	* .09	* .09	* .07
238764	74AC157N	DIP-16	Quad 2-to-1 line data selector .....	* .15	* .15	* .12
239054	74ACT174N	DIP-16	Hex D-type flip-flop with clear .....	* .12	* .12	* .09
211895	74AC240N	DIP-20	Octal buffer/line driver .....	.49	.45	.35
211908	74AC244N	DIP-20	Tri-state octal buffer/line driver .....	* .12	* .12	* .09
212054	74ACT244N	DIP-20	Tri-state octal buffer/line driver .....	* .15	* .15	* .12
214199	74AHC245N	DIP-20	Tri-state octal bus transceiver .....	* .15	* .15	* .12
214236	74AHC574N	DIP-20	Tri-state octal D-type flip-flop .....	* .15	* .15	* .12
267371	74ACT715M	SOIC-20	Programmable video sync generator .....	4.95	3.95	3.49
291784	74ABT2244AD	SOIC-20	Tri-state octal buffer .....	* .15	* .15	* .12
291400	74ABT5402AD	SOIC-28	Tri-state 12-bit line/memory driver .....	2.95	2.49	1.95

## 74ALS/ALVC Series

Please Note: Manufacturer may vary

\*Web Code: SVC

\* Order in multiples of 10

Part No.	Product No.	Pkg.	Description	1	10	100
245294	74ALS00AN	DIP-14	Quad 2-input pos. NAND gate .....	\$2.25	\$2.22	\$1.19
314309	74ALVCOOT	TSSOP-14	Quad 2-input pos. NAND gate .....	* .15	* .15	* .12
245307	74ALS04BN	DIP-14	Hex inverter .....	* .07	* .07	* .05
314341	74ALVC08T	TSSOP-14	Quad 2-input pos. AND gate .....	* .15	* .15	* .12
44134	74ALS32N	DIP-14	Quad 2-input pos. OR gate .....	* .07	* .07	* .05
310295	74ALS244AM	SOIC-20	Tri-state octal buffer/line driver .....	* .09	* .09	* .07
245788	74ALS258N	DIP-16	Quad 2-to-1 line data selector/multiplexer .....	* .15	* .15	* .12

## 74C Series

\*Web Code: RAG

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
44222	♦	74C00N	DIP-14	Quad 2-input pos. NAND gate .....	\$2.19	\$1.95	\$1.75
44231	♦	74C04N	DIP-14	Hex inverter (CD4069) .....	.39	.29	.25
44257	♦	74C14N	DIP-14	Hex schmitt-trig. inverter (CD40106) .....	1.49	1.25	1.15
44361	♦	74C221N	DIP-16	Dual monostable multivibrator .....	4.95	4.49	3.95
44396	♦	74C373N	DIP-20	Octal D-type transparent latch .....	2.95	2.49	2.15
44409	♦	74C374N	DIP-20	Octal D-type flip-flop .....	1.95	1.75	1.49
44521	♦	74C912N	DIP-28	6-digit BCD display controller/driver .....	4.95	4.49	3.95
44564	♦	74C922N	DIP-18	16-key keyboard encoder .....	7.95	7.25	6.75
44572	♦	74C923N	DIP-20	20-key keyboard encoder .....	6.95	6.25	5.49
44599	♦	74C926N	DIP-18	4-digit counter w/ 7-seg. output driver .....	12.95	11.95	10.95

\* TI = Texas Instruments

♦ Manufacturer Varies

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

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# 74F, 74HC & HCT Series

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NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

## 74F Series

Please Note: Manufacturer may vary

\*Web Code: CEN

Part No.	Product No.	Pkg.	Description	* Order in multiples of 10		
				1	10	100
286993	74F02N	DIP-14	Quad 2-input pos. NOR gate	\$.39	\$.35	\$.29
287005	74F04N	DIP-14	Hex inverter	.39	.35	.29
287013	74F08N	DIP-14	Quad 2-input pos. AND gate	.39	.35	.29
44652	74F10N	DIP-14	Triple 3-input pos. NAND gate	*	.07	.05
287654	74F14D	SOIC-14	Hex schmitt trigger inverter	*	.07	.05
287021	74F14N	DIP-14	Hex schmitt trigger inverter	.29	.25	.19
245121	74F30N	DIP-14	8-input NAND gate	*	.07	.05
287638	74F32D	SOIC-14	Quad 2-input pos. OR gate	*	.07	.05
287048	74F32N	DIP-14	Quad 2-input pos. OR gate	.39	.35	.29
245139	74F38N	DIP-14	Quad 2-input NAND buffer	*	.07	.05
287620	74F74D	SOIC-14	Dual D-type flip-flop	*	.09	.07
287056	74F74N	DIP-14	Dual D-type flip-flop	.35	.29	.25
287611	74F86D	SOIC-14	Quad 2-input exclusive OR gate	*	.07	.05
287064	74F86N	DIP-14	Quad 2-input exclusive OR gate	.45	.39	.35
287566	74F138D	SOIC-16	3-to-8 line decoder/demultiplexer	*	.07	.05
287072	74F138N	DIP-16	3-to-8 line decoder/demultiplexer	*	.07	.05
287081	74F139N	DIP-16	Dual 2-to-4 decoder/demultiplexer	*	.07	.05
245163	74F148N	DIP-16	8-to-3 line priority encoder	*	.15	.12
245171	74F157AN	DIP-16	Quad 2-to-1 line data selector	*	.07	.05
282731	74F174N	DIP-16	Hex D-type flip-flop with clear	*	.07	.05
287540	74F244D	SOIC-20	Tri-state octal buffer/line driver	*	.09	.07
287144	74F245N	DIP-20	Tri-state octal bus transceiver	.39	.35	.29
283557	74F257D	SOIC-16	Quad 2-to-1 data selector/multiplexer	*	.09	.07
287099	74F273N	DIP-20	Octal D-type flip-flop	*	.07	.05
287494	74F373D	SOIC-20	Octal D-type transparent latch	*	.09	.07
282642	74F573N	DIP-20	3-state octal D-type transparent latch	*	.12	.09
287460	74F574D	SOIC-20	Tri-state octal D-type flip-flop	*	.09	.07

## 74HC Series

\*Web Code: SDJ

Part No.	*Mfr.	Product No.	Pkg.	Description	* Order in multiples of 10		
					1	10	100
906291	NXP	74HC00D-T	SOIC-14	Quad 2-input pos. NAND gate	*	\$.09	\$.07
45161	+	74HC00N	DIP-14	Quad 2-input pos. NAND gate	.35	.29	.25
906339	NXP	74HC00N	DIP-14	Quad 2-input pos. NAND gate	.35	.29	.25
835219	TI	SN74HC00N	DIP-14	Quad 2-input pos. NAND gate	.35	.29	.19
45188	+	74HC02N	DIP-14	Quad 2-input pos. NOR gate	.35	.29	.25
906531	NXP	74HC04D-T	SOIC-14	Hex inverter	*	.09	.07
45209	+	74HC04N	DIP-14	Hex inverter	.35	.29	.25
250982	TI	SN74HC04N	DIP-14	Hex inverter	.35	.29	.25
906574	NXP	74HC04N	DIP-14	Hex inverter	.29	.25	.22
906611	NXP	74HC08D-T	SOIC-14	Quad 2-input pos. AND gate	*	.09	.07
45225	+	74HC08N	DIP-14	Quad 2-input pos. AND gate	.35	.29	.25
45233	+	74HC10N	DIP-14	Triple 3-input pos. NAND gate	.29	.25	.22
45364	+	74HC14N	DIP-14	Hex schmitt-trigger inverter	.35	.29	.25
251045	TI	SN74HC14N	DIP-14	Hex schmitt-trigger inverter	.39	.35	.29
915841	TI	SN74HC27DR	SOIC-14	Triple 3-input pos. NOR gate	*	.09	.07
908799	NXP	74HC32D-T	SOIC-14	Quad 2-input pos. OR gate	*	.09	.07
45794	+	74HC32N	DIP-14	Quad 2-input pos. OR gate	.39	.35	.25
251088	TI	SN74HC32N	DIP-14	Quad 2-input pos. OR gate	.35	.29	.25
46130	+	74HC74N	DIP-14	Dual D-type flip-flop	.35	.29	.25
251097	TI	SN74HC74NE4	DIP-14	Dual D-type flip-flop	*	.15	.12
46181	+	74HC86N	DIP-14	Quad 2-input exclusive OR gate	.35	.29	.25
45292	+	74HC123N	DIP-16	Dual monostable multivibrator	.39	.35	.29
45305	+	74HC125N	DIP-14	Tri-state quad bus buffer	.29	.25	.22
380146	TI	SN74HC132PW	TSSOP-14	Quad 2-input NAND schmitt trigger	*	.12	.09
45321	+	74HC132N	DIP-14	Quad 2-input NAND schmitt trigger	.35	.29	.25
86182	+	74HC138D	SOIC-16	3-to-8 line decoder/demultiplexer	*	.07	.05
45330	+	74HC138N	DIP-16	3-to-8 line decoder/demultiplexer	.35	.29	.25
45401	+	74HC154N	DIP-24	4-to-16 line decoder (0.3" wide)	.79	.69	.59
45487	+	74HC164N	DIP-14	8-bit serial shift register	.35	.29	.25

\* NXP = NXP/Philips Semiconductor | TI = Texas Instruments | + Manufacturer Varies

## 74HC Series (Continued)

\*Web Code: SDJ

Part No.	*Mfr.	Product No.	Pkg.	Description	* Order in multiples of 10		
					1	10	100
251328	TI	SN74HC164N	DIP-14	8-bit serial shift register	\$.39	\$.35	\$.29
45495	+	74HC165N	DIP-16	8-bit parallel load shift register	.25	.22	.19
251336	TI	SN74HC165N	DIP-16	8-bit parallel load shift register	.35	.29	.25
380437	TI	SN74HC174PW	TSSOP-16	Hex D-type flip-flop with clear	*	.15	.12
45541	+	74HC192N	DIP-16	Synch. 4-bit up/down decade counter	.65	.55	.45
915551	TI	SN74HC244PWR	TSSOP-20	Tri-state octal buffer/line driver	*	.15	.12
45655	+	74HC244N	DIP-20	Tri-state octal buffer/line driver	.25	.22	.19
45671	+	74HC245N	DIP-20	Tri-state octal bus transceiver	.25	.22	.19
45743	+	74HC273N	DIP-20	Octal D-type flip-flop	.35	.29	.25
45831	+	74HC373N	DIP-20	Octal D-type transparent latch	.45	.39	.29
86254	+	74HC374D	SOIC-20	Octal D-type flip-flop	*	.07	.05
45858	+	74HC374N	DIP-20	Octal D-type flip-flop	.45	.39	.29
380998	+	74HC540T	TSSOP-20	Tri-state octal buffer/line driver	*	.15	.12
109760	+	74HC540N	DIP-20	Tri-state octal buffer/line driver	.39	.35	.29
381000	TI	SN74HC541PW	TSSOP-20	Tri-state octal buffer/line driver	*	.15	.12
46050	+	74HC541N	DIP-20	Tri-state octal buffer/line driver	.39	.35	.29
46076	+	74HC573N	DIP-20	3-st. octal D-type transparent latch	.45	.39	.35
46084	+	74HC574N	DIP-20	Tri-state octal D-type flip-flop	.45	.39	.35
46105	+	74HC595N	DIP-16	8-bit shift register w/ output latch	.49	.39	.29
911189	NXP	74HC595N	DIP-16	8-bit shift register w/ output latch	.55	.45	.35
251643	TI	SN74HC595N	DIP-16	8-bit shift register w/ output latch	.55	.45	.35
45891	+	74HC4017N	DIP-16	Hi speed decade counter/divider	.39	.35	.29
45920	+	74HC4040N	DIP-16	12-bit asynch. binary counter	.39	.35	.29
272129	+	74HC4053N	DIP-16	Triple 2-ch analog multiplexer	*	.15	.12
45971	+	74HC4066N	DIP-14	Quad bilateral analog switch	.35	.29	.25
252566	TI	CD74HC4316M	SOIC-16	High speed quad analog switch	*	.22	.19

## 74HCT Series

Please Note: Manufacturer may vary

\*Web Code: SAG

Part No.	Product No.	Pkg.	Description	* Order in multiples of 10		
				1	10	100
246027	74HCT00M	SOIC-14	Quad 2-input pos. NAND gate	*	\$.09	\$.07
44871	74HCT00N	DIP-14	Quad 2-input pos. NAND gate	.25	.22	.15
44898	74HCT04N	DIP-14	Hex inverter	.25	.22	.17
63765	74HCT05N	DIP-14	Hex inverter (O.C.)	.35	.29	.25
44901	74HCT08N	DIP-14	Quad 2-input pos. AND gate	.29	.25	.22
618046	74HCT10N	DIP-14	Triple 3-input pos. NAND gate	*	.07	.05
912296	74HCT14D-T	SOIC-14	Hex schmitt-trigger inverter	*	.09	.07
44935	74HCT14N	DIP-14	Hex schmitt-trigger inverter	.25	.22	.19
45137	74HCT74N	DIP-14	Dual D-type flip-flop	.25	.22	.19
45145	74HCT86N	DIP-14	Quad 2-input exclusive OR gate	.35	.29	.25
44927	74HCT138N	DIP-16	3-to-8 decoder/demultiplexer	.35	.29	.25
381253	SN74HCT240PW	TSSOP-20	Octal buffer/line driver	*	.15	.12
45022	74HCT244N	DIP-20	Tri-state octal buffer/line driver	.35	.29	.25
45031	74HCT245N	DIP-20	Tri-state octal bus transceiver	.45	.39	.29
45065	74HCT373N	DIP-20	Octal D-type transparent latch	.29	.25	.22
45073	74HCT374N	DIP-20	Octal D-type flip-flop	.35	.29	.25
45090	74HCT573N	DIP-20	3-st. octal D-type transparent latch	.45	.39	.29
45129	74HCT688N	DIP-20	8-bit magnitude comparator	.59	.49	.39

## 74LS Series IC Kit

SAVE \$126

Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 163 and 30 adhesive labels for drawers to identify parts in kit

10 each: 74LS05, 74LS10, 74LS11, 74LS14, 74LS20, 74LS30, 74LS47, 74LS73, 74LS75, 74LS85, 74LS86, 74LS90, 74LS93, 74LS123, 74LS125, 74LS139, 74LS151, 74LS155, 74LS157, 74LS174, 74LS175, 74LS193, 74LS240, 74LS244, 74LS245, 74LS273, 74LS373, 74LS374

20 each: 74LS00, 74LS02, 74LS04, 74LS08, 74LS32, 74LS74, 74LS138

Part No.	Description	Wt. (lbs.)	1	5
84961	420 pcs. 74LS IC kit	6.7	\$149.95	\$129.95
130391	Refill for 84961 (420 pcs.)	2.0	134.95	119.95







## 74LS Series

\*Web Code: NBS

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
46252	♦	74LS00N**	DIP-14	Quad 2-input pos. NAND gate	\$.45	\$.39	\$.35
46253	♦	74LS00N	DIP-14	Quad 2-input pos. NAND gate	.49	.45	.39
283725	TI	SN74LS00N	DIP-14	Quad 2-input pos. NAND gate	.49	.45	.39
46287	♦	74LS02N**	DIP-14	Quad 2-input pos. NOR gate	.49	.45	.35
283741	TI	SN74LS02N	DIP-14	Quad 2-input pos. NOR gate	.55	.49	.39
283784	TI	SN74LS03N	DIP-14	Quad 2-input pos. NAND gate (O.C.)	.89	.79	.69
46316	♦	74LS04N**	DIP-14	Hex inverter	.49	.45	.39
283792	TI	SN74LS04N	DIP-14	Hex inverter	.55	.49	.45
46318	♦	74LS04N	DIP-14	Hex inverter	.55	.49	.45
46341	♦	74LS05N*	DIP-14	Hex inverter (O.C.)	.45	.35	.29
46359	♦	74LS06N	DIP-14	Hex inverter buffer/driver	.89	.75	.59
46367	♦	74LS07N	DIP-14	Hex buffer/driver	.75	.65	.55
46375	♦	74LS08N**	DIP-14	Quad 2-input pos. AND gate	.49	.45	.39
295401	TI	SN74LS08N	DIP-14	Quad 2-input pos. AND gate	.55	.49	.45
46391	♦	74LS09N	DIP-14	Quad 2-input pos. AND gate (O.C.)	.45	.35	.29
46404	♦	74LS10N*	DIP-14	Triple 3-input pos. NAND gate	.59	.49	.39
46439	♦	74LS11N*	DIP-14	Triple 3-input pos. AND gate	.59	.49	.39
46440	♦	74LS14N*	DIP-14	Hex schmitt-trigger inverter	.49	.39	.29
295460	TI	SN74LS14N	DIP-14	Hex schmitt-trigger inverter	.55	.45	.35
47095	♦	74LS20N*	DIP-14	Dual 4-input NAND gate	.69	.59	.49
295478	TI	SN74LS20N	DIP-14	Dual 4-input NAND gate	.75	.65	.55
47108	♦	74LS21N	DIP-14	Dual 4-input AND gate	.49	.39	.29
47378	♦	74LS27N	DIP-14	Triple 3-input NOR gate	.69	.59	.49
47458	♦	74LS30N*	DIP-14	8-input NAND gate	.29	.25	.22
47466	♦	74LS32N**	DIP-14	Quad 2-input pos. OR gate	.45	.39	.35
295515	TI	SN74LS32N	DIP-14	Quad 2-input pos. OR gate	.49	.45	.39
47467	♦	74LS32N	DIP-14	Quad 2-input pos. OR gate	.49	.45	.39
295558	TI	SN74LS37N	DIP-14	Quad 2-input pos. NAND buffer	.35	.25	.19
47773	♦	74LS42N	DIP-14	4 line BCD to 10 line decimal decoder	1.09	.99	.89
47790	♦	74LS47N*	DIP-16	BCD-to-7 seg. decoder/driver	1.29	1.19	.89
295582	TI	SN74LS47N	DIP-16	BCD-to-7 seg. decoder/driver	1.39	1.29	.95
47811	♦	74LS48N	DIP-16	BCD-to-7 seg. decoder/driver	3.95	3.49	2.95
47992	♦	74LS73N*	DIP-14	Dual J-K neg-edge-triggered flip-flop	1.35	1.15	.95
48004	♦	74LS74N**	DIP-14	Dual D-type flip-flop	.49	.39	.35
295726	TI	SN74LS74AN	DIP-14	Dual D-type flip-flop	.55	.45	.39
48021	♦	74LS75N*	DIP-16	4-bit bi-stable latch	1.39	1.19	1.09
295734	TI	SN74LS75N	DIP-16	4-bit bi-stable latch	1.49	1.29	1.19
48039	♦	74LS76N	DIP-16	Dual J-K pos-edge-triggered flip-flop	1.29	1.19	1.09
48063	♦	74LS83N	DIP-16	4-bit binary full adder	2.19	1.99	1.79
48071	♦	74LS85N*	DIP-16	4-bit magnitude comparator	.99	.89	.75
295742	TI	SN74LS85N	DIP-16	4-bit magnitude comparator	.89	.79	.65
48098	♦	74LS86N*	DIP-14	Quad 2-input exclusive OR gate	.49	.39	.29
295751	TI	SN74LS86N	DIP-14	Quad 2-input exclusive OR gate	.55	.45	.35
48119	♦	74LS90N*	DIP-14	Asynchronous decade counter	1.49	1.39	1.19
295769	TI	SN74LS90N	DIP-14	Asynchronous decade counter	1.59	1.49	1.29
48143	♦	74LS92N	DIP-14	Divide-by-12 decade counter	1.75	1.49	1.25
48151	♦	74LS93N*	DIP-14	4-bit binary counter	1.75	1.49	1.19
295822	TI	SN74LS93N	DIP-14	4-bit binary counter	1.35	1.15	.89
46412	♦	74LS107N	DIP-14	Dual J-K flip-flop with clear	1.09	.99	.89
46421	♦	74LS109N	DIP-16	Dual J-K bar flip-flop	.85	.75	.65
46447	♦	74LS112N	DIP-16	Dual J-K neg-edge-triggered flip-flop	.55	.45	.35
46471	♦	74LS122N	DIP-14	Retriggerable monostable multivibrator	.89	.79	.69
46480	♦	74LS123N*	DIP-16	Dual monostable multivibrator	.65	.55	.45
300880	TI	SN74LS123N	DIP-16	Dual monostable multivibrator	.69	.59	.49
46501	♦	74LS125N*	DIP-14	Tri-state quad bus buffer	.65	.55	.45
46527	♦	74LS126N	DIP-14	Tri-state quad bus buffer	.55	.45	.35
46551	♦	74LS132N	DIP-14	Quad 2-input NAND schmitt trigger	.59	.49	.39
46607	♦	74LS138N**	DIP-16	3-to-8 decoder/demultiplexer	.59	.49	.39
301233	TI	SN74LS138N	DIP-16	3-to-8 decoder/demultiplexer	.69	.59	.49
46608	♦	74LS138N	DIP-16	3-to-8 decoder/demultiplexer	.65	.55	.45
46623	♦	74LS139N*	DIP-16	Dual 2-to-4 decoder/demultiplexer	.59	.49	.39

\*10 pcs./ \*\*20 pcs. in 74LS series IC cabinet kit, pg 4

## 74LS Series (Continued)

\*Web Code: NBS

\* Order in multiples of 10

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
301268	TI	SN74LS139AN	DIP-16	Dual 2-to-4 decoder/demultiplexer	\$.65	\$.55	\$.45
46666	♦	74LS145N	DIP-16	BCD-to-decimal decoder/driver	.69	.59	.49
301276	TI	SN74LS145N	DIP-16	BCD-to-decimal decoder/driver	.79	.69	.59
46682	♦	74LS148N	DIP-16	8-to-3 line priority encoder	1.05	.95	.85
46703	♦	74LS151N*	DIP-16	1-to-8 data selector/multiplexer	.75	.65	.55
46720	♦	74LS153N	DIP-16	Dual 4-to-1 data selector/multiplexer	.75	.65	.55
46738	♦	74LS154N	DIP-24	4-to-16 line decoder/demultiplexer	4.95	4.75	4.25
46754	♦	74LS155N*	DIP-16	Dual 2-to-4 line decoder/demultiplexer	.85	.75	.65
46771	♦	74LS157N*	DIP-16	Quad 2-to-1 line data selector	.59	.49	.39
46800	♦	74LS160N	DIP-16	Synchronous decade counter	2.49	2.25	2.05
46818	♦	74LS161N	DIP-16	4-bit synchronous binary counter	.65	.55	.45
301647	TI	SN74LS161AN	DIP-16	4-bit synchronous binary counter	.69	.59	.49
46842	♦	74LS163N	DIP-16	Synchronous 4-bit binary counter	.65	.55	.45
46851	♦	74LS164N	DIP-14	8-bit serial shift register	.59	.49	.39
46877	♦	74LS165N	DIP-16	8-bit parallel load shift register	.55	.45	.35
301680	♦	SN74LS165AN	DIP-16	8-bit parallel load shift register	.65	.55	.45
46885	♦	74LS166N	DIP-16	Serial-out shift register	.89	.79	.69
46906	♦	74LS169N	DIP-16	Synch. 4-bit binary up/down counter	.99	.89	.79
46922	♦	74LS173N	DIP-16	4-bit D-type register w/ 3-state output	.89	.79	.69
46931	♦	74LS174N*	DIP-16	Hex D-type flip-flop with clear	.69	.59	.49
46957	♦	74LS175N*	DIP-16	Quad D-type flip-flop with clear	.69	.59	.49
46973	♦	74LS181N	DIP-24	Arithmetic logic unit/function generator	2.95	2.75	2.49
46990	♦	74LS190N	DIP-16	Synchronous up/down decade counter	2.95	2.75	2.49
47001	♦	74LS191N	DIP-16	Synch. 4-bit up/down binary counter	.65	.55	.45
47010	♦	74LS192N	DIP-16	Synch. 4-bit up/down decade counter	3.49	3.25	2.95
47036	♦	74LS193N*	DIP-16	Synch. 4-bit up/down binary counter	.79	.69	.59
301831	TI	SN74LS193N	DIP-16	Synch. 4-bit up/down binary counter	.89	.79	.69
47052	♦	74LS194N	DIP-16	4-bit bi-directional shift register	.99	.89	.79
301858	TI	SN74LS194N	DIP-16	4-bit bi-directional shift register	1.09	.99	.89
47061	♦	74LS195N	DIP-16	4-bit parallel-access shift register	2.05	1.95	1.75
47124	♦	74LS221N	DIP-16	Dual monostable multivibrator	.85	.75	.65
47141	♦	74LS240N*	DIP-20	Octal buffer/line driver	.69	.55	.45
308291	TI	SN74LS240N	DIP-20	Octal buffer/line driver	.79	.65	.55
47167	♦	74LS241N	DIP-20	Tri-state octal buffer/line driver	.65	.55	.45
47183	♦	74LS244N*	DIP-20	Tri-state octal buffer/line driver	.65	.55	.45
308312	TI	SN74LS244N	DIP-20	Tri-state octal buffer/line driver	.69	.59	.49
47212	♦	74LS245N*	DIP-20	Tri-state octal bus transceiver	.65	.55	.45
308321	TI	SN74LS245N	DIP-20	Tri-state octal bus transceiver	.69	.59	.49
47247	♦	74LS247N	DIP-16	BCD to 7-seg. decoder/driver	1.09	.99	.89
47327	♦	74LS259N	DIP-16	8-bit addressable latch	.89	.79	.69
47360	♦	74LS266N	DIP-14	Quad 2-input exclusive NOR gate (O.C.)	.65	.55	.45
47386	♦	74LS273N*	DIP-20	Octal D-type flip-flop	.69	.55	.45
308398	TI	SN74LS273N	DIP-20	Octal D-type flip-flop	.79	.65	.55
47407	♦	74LS279N	DIP-16	Quad S-R latch	.75	.65	.55
47423	♦	74LS283N	DIP-16	4-bit binary full add w/ fast carry	1.09	.99	.89
47554	♦	74LS366N	DIP-16	Tri-state hex buffer	...	...	...
47562	♦	74LS367N	DIP-16	Tri-state hex buffer	.69	.59	.49
309278	TI	SN74LS368AN	DIP-16	6-bit buffer/line driver	.95	.85	.75
47600	♦	74LS373N*	DIP-20	Octal D-type transparent latch	.69	.55	.45
308460	TI	SN74LS373N	DIP-20	Octal D-type transparent latch	.79	.65	.55
47634	♦	74LS374N*	DIP-20	Octal D-type flip-flop	.69	.55	.45
308478	TI	SN74LS374N	DIP-20	Octal D-type flip-flop	.79	.65	.55
1944311	♦	74LS375N	DIP-16	4-bit bistable latch	...	...	...
47669	♦	74LS377N	DIP-20	Octal D-type flip-flop	.85	.75	.65
47722	♦	74LS390N	DIP-16	Dual 4-bit decade counter	.95	.85	.75
47731	♦	74LS393N	DIP-14	Dual 4-bit binary counter	.85	.75	.65
47861	♦	74LS540N	DIP-20	Tri-state octal buffer/line driver	1.29	1.19	1.09
47870	♦	74LS541N	DIP-20	Tri-state octal buffer/line driver	.75	.65	.55
308523	TI	SN74LS541N	DIP-20	Tri-state octal buffer/line driver	.99	.89	.79
64418	♦	74LS573N	DIP-20	Tri-state octal D-type flip flop	2.19	2.05	1.95
64426	♦	74LS574N	DIP-20	Tri-state octal D-type flip flop	2.19	2.05	1.95
103974	♦	74LS595N	DIP-16	8-bit shift register with output latch	4.95	4.49	3.95
47984	♦	74LS688N	DIP-20	8-bit identity comparator	1.25	1.05	.85

\*10 pcs. in 74LS series IC cabinet kit, pg 4

\* TI = Texas Instruments ♦ Manufacturer Varies

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# 74S, 4000, 5000 & 6500 Series

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

## 74S Series

Please Note: Manufacturer may vary **\*Web Code: NCK**

Part No.	Product No.	Pkg.	Description	* Order in multiples of 10		
				1	10	100
48573	74S20N	DIP-14	Dual 4-input NAND gate	...	...	...
48750	74S32N	DIP-14	Quad 2-input pos. OR gate	...	...	...
48531	74S188N	DIP-16	(32 x 8) 256-bit TTL PROM (27S18)	5.95	5.49	4.95
48557	74S189N	DIP-16	(16 x 8) 64-bit RAM (27S03)	3.95	3.75	3.49
677020	74S244N	DIP-20	Tri-state octal buffer/line driver	.59	.45	.35
48696	74S287N	DIP-16	(256 x 4) 1024-bit TTL PROM (TBP24S10)	8.49	7.49	6.49
48717	74S288N	DIP-16	(32 x 8) 256-bit TTL PROM (TBP18S030N)	10.95	9.95	8.95
48805	74S387N	DIP-16	(256 x 4) 1024-bit TTL PROM (TBP24SA10N)	3.95	3.75	3.49
52513	74S428N	DIP-28	System controller/bus driver (8228)	3.95	3.75	3.49
48864	74S472N	DIP-20	(512 x 8) 4096-bit TTL PROM (TBP28S42N)	12.95	11.95	10.95
48910	74S571N	DIP-16	(512 x 4) 2048-bit TTL PROM (AM27S13)	7.95	6.95	5.95

See page 3 for our Texas Instruments TTL Logic Data Book

## 4000 Series

**\*Web Code: WAA**

Part No.	*Mfr.	Product No.	Pkg.	Description	* Order in multiples of 10		
					1	10	100
12562	+	CD4001*	DIP-14	Quad 2-input NOR gate	\$.39	\$.35	\$.29
675964	+	CD4002	DIP-14	Dual 4-input NOR gate	.29	.25	.22
12597	+	CD4007	DIP-14	Dual complimentary pair plus inverter	.39	.35	.29
197270	+	CD4011M	SOIC-14	Quad 2-input NAND gate	...	...	...
12634	+	CD4011*	DIP-14	Quad 2-input NAND gate	.39	.35	.29
893283	TI	CD4011BE	DIP-14	Quad 2-input NAND gate	.45	.39	.29
12677	+	CD4013*	DIP-14	Dual D-type flip-flop	.39	.35	.29
893443	TI	CD4013BE	DIP-14	Dual D-type flip-flop	.45	.39	.35
12706	+	CD4015*	DIP-16	Dual 4-stage static shift register	.29	.25	.22
12722	+	CD4016*	DIP-14	Quad bilateral switch	.29	.25	.22
12749	+	CD4017*	DIP-16	Decade counter/divider	.45	.35	.29
893611	TI	CD4017BE	DIP-16	Decade counter/divider	.49	.39	.35
12773	+	CD4018	DIP-16	Presetable divide-by-N counter	.49	.45	.35
12802	+	CD4020*	DIP-16	14-stage ripple carry binary counter	.39	.35	.29
12829	+	CD4021	DIP-16	8-stage static shift register	.29	.25	.22
12845	+	CD4023*	DIP-14	Triple 3-input NAND gates	.29	.25	.22
12853	+	CD4024*	DIP-14	7-stage ripple carry binary counter	.29	.25	.22
353560	+	CD4026	DIP-16	Decade counter/divider	.45	.35	.29
12888	+	CD4027*	DIP-16	Dual J-K master/slave flip-flop	.35	.29	.25
12909	+	CD4028	DIP-16	BCD-to-decimal decoder	.29	.25	.22
12925	+	CD4029	DIP-16	Preset up/down binary counter	.45	.39	.35
12950	+	CD4040*	DIP-16	12-stage binary/ripple counter	.45	.35	.29
12992	+	CD4043	DIP-16	Tri-state quad NOR R/S latch	.39	.35	.29
13004	+	CD4044	DIP-16	Quad NAND R/S latch	.39	.35	.29
13012	+	CD4046*	DIP-16	Micropower phase lock loop	.49	.39	.35
13039	+	CD4047	DIP-14	Monostable/astable multivibrator	.35	.29	.25
13055	+	CD4049*	DIP-16	Hex inverting buffer/converter	.39	.35	.29
13071	+	CD4050*	DIP-16	Hex non-inverting buffer/converter	.29	.25	.22
13098	+	CD4051*	DIP-16	Single 8-channel analog multiplexer	.39	.35	.29
894391	TI	CD4051BE	DIP-16	Single 8-channel analog multiplexer	.45	.39	.35
13119	+	CD4052	DIP-16	Dual 4-channel analog multiplexer	.35	.29	.25
13127	+	CD4053	DIP-16	Triple 2-channel analog multiplexer	.35	.29	.25
818259	TI	CD4059AE	DIP-24	Programmable divide-by-N counter	1.49	1.25	1.05
13151	+	CD4060	DIP-16	14-stage ripple carry binary counter	.45	.35	.29
13186	+	CD4066*	DIP-14	Quad bilateral switch	.35	.29	.25
13215	+	CD4067	DIP-24	Single 16-channel analog multiplexer	1.09	.99	.89
13231	+	CD4069*	DIP-14	Hex inverters (74C04)	.39	.35	.25
13232	+	CD4069	DIP-14	Hex inverters (74C04)	.35	.29	.25
13258	+	CD4070*	DIP-14	Quad 2-input exclusive OR gate	.35	.29	.25
13274	+	CD4071*	DIP-14	Quad 2-input OR gate	.39	.35	.29
676086	+	CD4073	DIP-14	Triple 3-input AND gate	.29	.25	.22
676094	+	CD4075	DIP-14	Triple 3-input OR gate	.39	.35	.29
676107	+	CD4077	DIP-14	Quad exclusive NOR gate	.35	.29	.25
676115	+	CD4078	DIP-14	8-input NOR/OR gate	.49	.45	.35

\* 10 pcs./\*\* 20 pcs. in 4000 series IC cabinet kit, right

## 4000 Series (Continued)

**\*Web Code: WAA**

Part No.	*Mfr.	Product No.	Pkg.	Description	* Order in multiples of 10		
					1	10	100
13354	+	CD4081*	DIP-14	Quad 2-input AND gate	\$.39	\$.35	\$.29
676123	+	CD4082	DIP-14	Dual 4-input AND gate	.39	.35	.29
13400	+	CD4093*	DIP-14	Quad 2-input NAND schmitt trigger	.39	.35	.29
818902	TI	CD4093BQM96Q1	SOIC-14	Quad 2-input NAND schmitt trigger	...	.19	.15
818873	TI	CD4093BE	DIP-14	CMOS 2-input NAND Gate	.45	.39	.35
870807	FSC	CD4093BCN	DIP-14	Quad 2-input NAND schmitt trigger	.59	.49	.45
13426	+	CD4094	DIP-16	8-bit shift register with latch	.45	.39	.29
13442	+	CD4099	DIP-16	8-bit addressable latch	.45	.39	.35
13485	+	CD4510	DIP-16	BCD presetable up/down counter	.39	.35	.29
13493	+	CD4511*	DIP-16	BCD-to-7 segment latch/decoder/driver	.45	.35	.29
895377	TI	CD4511BE	DIP-16	BCD-to-7 segment latch/decoder/driver	.49	.39	.35
13522	+	CD4514	DIP-24	4-bit latch/line decoder	.99	.89	.69
13549	+	CD4516	DIP-16	Binary up/down counter	.45	.35	.29
13565	+	CD4518	DIP-16	Dual BCD up counter	.39	.29	.25
13581	+	CD4520	DIP-16	Dual binary up counter	.35	.29	.25
13611	+	CD4528	DIP-16	Dual monostable multivibrator	.45	.39	.35
13653	+	CD4538*	DIP-16	Dual monostable multivibrator	.45	.35	.29
13696	+	CD4543*	DIP-16	BCD to 7-segment decoder driver	.45	.35	.29
13709	+	CD4553	DIP-16	3-digit BCD counter	1.75	1.59	1.45
13768	+	CD4584*	DIP-14	Hex schmitt trigger	.35	.29	.25
676473	+	CD40102	DIP-16	2-decade BCD 8-stage sync down counter	...	.19	.17
785071	FSC	CD40106BCN	DIP-14	Hex schmitt trigger	.69	.59	.49
676502	+	CD40110	DIP-16	Decade up/down counter	1.39	1.19	1.09

\* 10 pcs. in 4000 series IC cabinet kit, below

## 4000 Series CMOS IC Kit

SAVE \$41

Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 163 and 30 adhesive labels for drawers to identify parts in kit

10 each: CD4015, CD4016, CD4017, CD4020, CD4023, CD4024, CD4027, CD4040, CD4046, CD4050, CD4051, CD4069, CD4070, CD4071, CD4081, CD4093, CD4511, CD4538, CD4543, CD4584

20 each: CD4001, CD4011, CD4013, CD4049, CD4066

Part No.	Description	Wt. (lbs.)	1	5
84970	300 pcs. 4000 series CMOS IC kit	6.1	\$79.95	\$69.95
130403	Refill for 84970 (300 pcs.)	1.4	64.95	59.95

## 5000 Series & Clock Chips

**\*Web Code: RAE**

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10
32803	+	TCM5089N	DIP-16	Touch tone generator	\$4.95	\$4.49
26091	+	MM5321N	DIP-16	TV camera synchronous generator	3.75	3.25
26171	+	MM5450N	DIP-40	LED display driver	3.95	3.75
27422	+	LM555CN*	DIP-8	Timer	.25	.22
126797	+	LMC555CN*	DIP-8	CMOS timer	.69	.59
24328	+	LM556N*	DIP-14	Dual timer	.29	.25
95531	+	RTC72421B	DIP-18	Real time clock	8.95	7.95
25101	+	MC146818*	DIP-24	Real time clock with RAM	8.95	7.95
10567	AMD	AM9513APC*	DIP-40	Real time clock	34.95	31.95

\* 10 pcs./\*\* 20 pcs. in Linear series IC cabinet kit, pg 15 ★ Pull = Extra Savings

\*Delay Lines Available Online — Enter Web Code EEU

\*EconoResets Available Online — Enter Web Code YFE

## 6500 Series

Please Note: Manufacturer may vary **\*Web Code: NAG**

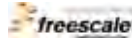
Part No.	Product No.	Pkg.	Description	1	10
43191	6502*	DIP-40	CPU, 8-bit, 1MHz	\$5.95	\$5.49
43166	65C02*	DIP-40	CPU, 8-bit, 1MHz	5.95	5.49
43254	6522*	DIP-40	Versatile interface adapter, 1MHz	5.95	5.49
43297	6532*	DIP-40	RAM I/O timer, 1MHz	7.95	7.25
43318	6551*	DIP-28	Asynch. comm. interface adapter, 1MHz	3.95	3.75

★ Pull = Extra Savings

\* AMD = Advanced Micro | FSC = Fairchild Semiconductor | TI = Texas Instruments | + Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.





## 6800/68000 CMOS

★ Web Code: SBP

Part No.	Mfr. Part No.	Pkg.	Description	1	10
248604	MC68HC11E1CFN3	PLCC-52	MCU, 8-bit, 38 I/O, 3MHz	\$9.95	\$8.95
248583	MC68HC11F1CFN3	PLCC-68	MCU, 8-bit, 30 I/O, 3MHz	11.95	10.95
108919	MC68HC705C8P	DIP-40	MCU, 8-bit, 24 I/O, 4MHz	10.95	9.95
132530	MC68HC705J1ACP	DIP-20	MCU, 8-bit, 14 I/O, 4MHz	4.95	4.49
248575	MC68HC711E9CFN2	PLCC-52	MCU, 8-bit, 38 I/O, 2MHz	18.95	16.95
323213	MC68HC908GR8CP	DIP-28	MCU, 8-bit, 21 I/O, 8MHz	3.95	3.49

## 6800/68000 N-MOS

★ Web Code: PAG

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10
43481	◆	6800★	DIP-40	CPU, 8-bit, 5V, 2MHz	\$5.95	\$4.95
43502	◆	6802★	DIP-40	CPU, 8-bit, 5V, 1MHz	9.95	8.95
43529	◆	6803★	DIP-40	CPU, 8-bit, 5V, 1MHz	6.95	5.95
43537	◆	6808★	DIP-40	CPU, 8-bit, 7V, 1MHz	7.95	7.25
43545	◆	6809E★	DIP-40	CPU, 8-bit, 7V, 1MHz	3.95	3.49
320590	◆	68B09E★	DIP-40	CPU, 8-bit, 7V, 2MHz	4.95	4.49
43561	◆	6810★	DIP-24	SRAM, 1K-bit, 5V, 1MHz	2.95	2.75
43596	◆	6821★	DIP-40	Peripheral inter. adptr, 8-bit, 7V, 1MHz	3.95	3.49
43414	◆	68B21	DIP-40	Peripheral inter. adptr, 8-bit, 7V, 1MHz	4.95	4.49
43617	◆	6840★	DIP-28	Programmable timer, 16-bit, 5V, 6MHz	2.95	2.75
43633	◆	6850★	DIP-24	Asynch. comm. int. adptr, 8-bit, 7V, 1MHz	4.49	3.95
25304	◆	MC68000L8★	DIP-64	CPU, 16-bit, 7V, 8MHz	8.95	7.95
25291	◆	MC68000L10★	DIP-64	CPU, 16-bit, 7V, 10MHz	9.95	8.95
25355	◆	MC68701★	DIP-40	MCU, 8-bit, 29 I/O, 2MHz	14.95	12.95
25363	MOT	MC68705P3S★	DIP-28	MCU, 8-bit, 20 I/O, 4MHz	24.95	22.95
25371	MOT	MC68705U3S★	DIP-40	MCU, 8-bit, 20 I/O, 4MHz	19.95	17.95

★ Pull = Extra Savings

## 8000 Series

Please Note: Manufacturer may vary

★ Web Code: CAH

Part No.	Product No.	Pkg.	Description	1	10	100
51844	8031★	DIP-40	MCU, 8-bit, 32 I/O, 8MHz	\$3.49	\$3.25	\$2.95
51676	80C31★	DIP-40	MCU, 8-bit, 32 I/O, 24MHz, CMOS	3.75	3.45	2.95
876096	P80C31BH-1	DIP-40	MCU, 8-bit, 32 I/O, 16MHz, CMOS	3.75	3.45	2.95
102197	8032★	DIP-40	CPU, 8-bit, 32 I/O, 12MHz	3.95	3.49	2.95
108804	80C32-1★	DIP-40	MCU, 8-bit, 32 I/O, 12MHz, CMOS	4.25	3.75	3.49
51861	8035★	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	3.95	3.49	2.95
51959	8039★	DIP-40	CPU, 8-bit, 27 I/O, 6MHz	3.95	3.49	2.95
51692	80C39	DIP-40	MCU, 8-bit, 27 I/O, 11MHz, CMOS	4.25	3.75	3.25
51983	8049★*	DIP-40	CPU, 8-bit, 27 I/O, 6MHz	2.95	2.75	2.49
51991	8051AP★**	DIP-40	MCU, 8-bit, 27 I/O, 11MHz	4.95	4.49	3.95
125647	80C52BASIC	DIP-40	MCU, 8-bit, 32 I/O, 12MHz, CMOS	33.95	31.95	29.95
52046	8080A★	DIP-40	CPU, 8-bit, 32 I/O, 1MHz	5.49	4.95	4.25
52062	8085AH★	DIP-40	CPU, 8-bit, 16 I/O, 3MHz	4.95	4.49	3.25
52071	8085AH-2★	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	5.49	4.95	3.95
51705	80C85A-2★	DIP-40	CPU, 8-bit, 16 I/O, 5MHz, CMOS	5.95	5.49	4.95
52100	8086-2★	DIP-40	CPU, 8-bit, 32 I/O, 8MHz	1.95	1.75	1.49
52142	8088★	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	2.95	2.75	2.49
52169	8088-2★	DIP-40	CPU, 8-bit, 16 I/O, 8MHz	3.95	3.49	2.95
34358	UPD70108-8★	DIP-40	CPU, 8-bit, 16 I/O, 8MHz	9.98	8.95	6.95
52290	8155★	DIP-40	I/O port timer, 2K-bit, 3MHz	3.95	3.49	2.95
52302	8155-2★	DIP-40	Static MOS RAM, 2K-bit, 3 I/O, 5MHz	4.95	4.49	3.25
52193	81C55★	DIP-40	I/O port timer, 2K-bit, 3MHz, CMOS	4.95	4.49	3.95
52468	8212★	DIP-24	I/O port timer, 8-bit, 3MHz	5.95	5.49	4.95
52484	8216	DIP-16	Bi-directional bus driver (non-invert.)	4.95	3.95	3.49
52492	8224★	DIP-16	Clock generator/driver	3.95	3.49	2.95
52513	8228	DIP-28	System controller/bus driver	3.95	3.75	3.49
52581	8243★	DIP-24	I/O expander, 5V, MIL. temp	5.49	4.95	3.25
52644	8251◆	DIP-28	USART	2.75	2.49	2.25
52652	8251A★	DIP-28	Prog. communications interface	3.95	3.49	2.95

\* 8049 (ROM not available for use) Tie pin 7 high to bypass the internal ROM to convert 8049 to 8039

\*\* Tie pin 31 low to bypass the internal ROM ★ Pull = Extra Savings ◆ Refurbished = Backed by Jameco

## 8000 Series (Cont.)

Please Note: Manufacturer may vary

★ Web Code: CAH

Part No.	Product No.	Pkg.	Description	1	10	100
52370	82C51A★	DIP-28	USART, 3V to 6V, CMOS	\$3.95	\$3.49	\$2.95
52679	8253★	DIP-24	Prog. interval timer, 2MHz	.99	.89	.69
52687	8253-5★	DIP-24	Prog. interval timer, 5MHz	3.49	3.25	2.75
52708	8254★	DIP-24	Prog. interval timer, 8MHz	4.49	3.95	3.49
52716	8254-2★	DIP-24	Prog. interval timer, 10MHz	4.95	4.49	3.95
52396	82C54★	DIP-24	Prog. interval timer, 8MHz, CMOS	4.95	4.49	3.95
52409	82C54-2★	DIP-24	Prog. interval timer, 10MHz, CMOS	4.95	4.49	3.95
52724	8255★	DIP-40	CPU peripheral, 2MHz	4.49	3.95	3.49
52732	8255A-5★	DIP-40	CPU peripheral, 5MHz	4.75	4.25	3.75
291805	8255AC-5	DIP-40	CPU peripheral, 4MHz	4.75	4.25	3.75
52417	82C55A★	DIP-40	CPU peripheral, 8MHz, CMOS	4.95	4.49	3.95
52425	82C55A-5	DIP-40	CPU peripheral, 5MHz, CMOS	4.95	4.49	3.95
52759	8256★	DIP-40	Multi func. uproc. support controller	17.95	15.95	13.95
52775	8259★	DIP-28	Prog. interrupt controller	1.95	1.75	1.49
52839	8279★	DIP-40	CPU peripheral, 5MHz	10.95	9.95	7.95
52847	8279-5★	DIP-40	CPU peripheral, 5MHz	12.95	11.95	10.95
52855	8282★	DIP-20	Octal latch bus driver	4.95	4.49	3.95
52871	8284A★	DIP-18	Clock generator/driver, 8MHz	4.95	4.49	3.95
2082020	N8284A	DIP-18	Up/down counter	1.95	1.49	1.25
52898	8286★	DIP-20	Octal bus transceiver	4.95	4.49	3.95
52901	8287★	DIP-20	Octal bus transceiver	9.95	8.95	7.95
53022	8748◆	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	10.95	9.95	8.95
53031	8748H◆	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	12.95	11.95	8.95
53057	8749H◆	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	15.95	14.95	12.95
53073	8751	DIP-40	MCU, 8-bit, 32 I/O, 8MHz	9.95	8.95	7.95
53081	8751H◆	DIP-40	MCU, 8-bit, 32 I/O, 12MHz	15.95	14.95	12.95
52978	87C51★	DIP-40	MCU, 8-bit, 32 I/O, 33MHz, CMOS	15.95	14.95	12.95
196120	P87C51	DIP-40	MCU, 8-bit, 32 I/O, 24MHz, CMOS	4.95	4.49	3.95
53090	8755	DIP-40	EPROM with I/O	4.95	3.95	3.25

★ Pull = Extra Savings

◆ Refurbished = Backed by Jameco

## Z80 MPUs

Please Note: Manufacturer may vary

★ Web Code: JAF

Part No.	Product No.	Pkg.	Description	1	10
35561	Z80★	DIP-40	2.5MHz CPU (MK3880N/780C)	\$1.95	\$1.75
35596	Z80A★	DIP-40	4MHz CPU (MK3880N-4/780C-1)	2.05	1.85
35609	Z80A-CTC★	DIP-28	4MHz counter timer circuit (MK3882-4)	2.49	2.25
35625	Z80A-DART★	DIP-40	4MHz dual asynchronous receiver/trans	2.49	2.25
35641	Z80A-PIO★	DIP-40	4MHz parallel I/O interf. contr. (MK3881-4)	2.05	1.85
35668	Z80A-SIO/O★	DIP-40	4MHz serial I/O, Tx/CB & Rx/CB bond. (MK3884-4)	2.49	2.25
35705	Z80B★	DIP-40	6MHz CPU (MK3880N-6)	2.49	2.25
35781	Z84C00-4★	DIP-40	4MHz CPU (Z84C0004PEC) CMOS	4.49	3.95
35799	Z8530★	DIP-40	2MHz serial communications controller	.49	.39
280479	Z8S18020PSC	DIP-64	Z180 MPU, MMU, DMA, UART, INT.	7.95	6.95
280516	Z84C0008PEC★	DIP-40	Z80 CPU with 3 mode int., 16 regs.	1.95	1.49
61786	Z85C3008PS★	DIP-40	Serial communications controller	2.95	2.75
281308	Z85C3016PSC	DIP-40	Serial communications controller	6.95	5.95
280436	Z8018008PSC	DIP-64	Z180 MPU, MMU, DMA, UART, INT.	3.95	3.49
280452	Z8018010PSC	DIP-64	Z180 MPU, MMU, DMA, UART, INT.	5.49	5.25

★ Pull = Extra Savings

## UARTs

Please Note: Manufacturer may vary

★ Web Code: MAG

Part No.	Product No.	Pkg.	Description	1	10
43158	6402★	DIP-40	5V CMOS	\$6.95	\$5.95
27570	NS16C450N★	DIP-40	Asynch. comm. element, 5V	2.95	2.75
27596	NS16550AN★	DIP-40	Asynch. comm. element, 5V	1.95	1.25
288809	TL16C550CN	DIP-40	1-channel w/ 16-byte FIFO, 5V	3.95	3.49
288841	TL16C554FN	PLCC-68	4-channel w/ 16-byte FIFO, 5V	6.95	5.95
288876	TL16C750FN	PLCC-44	1-channel w/ 64-byte FIFO, 5V	3.95	3.49
288905	TL16C754BFN	PLCC-68	4-channel w/ 64-byte FIFO, 5V	9.95	8.95

★ Pull = Extra Savings

\* MOT = Motorola

◆ Manufacturer Varies

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

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## EPROMs

\*Web Code: XAF

Part No.	*Mfr.	Product No.	Pkg.	Config.	Description	1	10	100
39909	◆	2708◆	DIP-24	1k x 8	450ns, 5V .....	\$3.95	\$3.75	\$3.49
33611	◆	TMS2716◆	DIP-24	2k x 8	450ns, 5V .....	2.95	2.75	2.49
40002	◆	2716◆	DIP-24	2k x 8	450ns, 5V .....	3.95	3.75	3.49
308662	◆	2716A-2	DIP-24	2k x 8	200ns, 5V .....	3.95	3.75	3.49
40011	◆	2716-1◆	DIP-24	2k x 8	350ns, 5V .....	4.49	3.95	3.75
33591	◆	TMS2532◆	DIP-24	4k x 8	450ns, 5V .....	3.95	3.75	3.49
40096	◆	2732◆	DIP-24	4k x 8	450ns, 5V .....	5.95	5.49	3.95
40133	◆	2732A-45◆	DIP-24	4k x 8	450ns, 5V .....	3.95	3.75	3.49
40125	◆	2732A-25◆	DIP-24	4k x 8	250ns, 5V .....	4.95	4.49	3.95
114876	◆	2732B◆	DIP-24	4k x 8	450ns, 5V .....	3.95	3.75	3.49
40109	◆	2732A-20◆	DIP-24	4k x 8	200ns, 5V .....	5.49	4.95	4.49
266001	◆	27C32-150◆	DIP-24	4k x 8	150ns, 5V .....	5.95	5.49	4.95
40205	◆	2764-25◆	DIP-28	8k x 8	250ns, 5V .....	3.95	3.75	3.49
40192	◆	2764-20◆	DIP-28	8k x 8	200ns, 5V .....	4.25	3.95	3.75
40248	◆	2764A-25◆	DIP-28	8k x 8	250ns, 5V .....	3.95	3.75	3.49
40230	◆	2764A-20◆	DIP-28	8k x 8	200ns, 5V .....	4.25	3.95	3.75
698322	ST	M27C64A-15F1◆	FDIP-28	8k x 8	150ns, 5V (±10%)	5.95	5.49	5.25
39845	◆	27C64-25◆	DIP-28	8k x 8	250ns, 5V .....	3.49	3.25	2.95
74608	◆	27C64-20◆	DIP-28	8k x 8	200ns, 5V .....	3.75	3.49	3.25
39829	◆	27C64-15◆	DIP-28	8k x 8	150ns, 5V .....	4.25	3.95	3.75
105304	◆	27C64-12◆	DIP-28	8k x 8	120ns, 5V .....	4.75	4.49	3.95
266036	◆	27C64-100	DIP-28	8k x 8	100ns, 5V .....	4.95	4.55	4.05
39933	◆	27128-25◆	DIP-28	16k x 8	250ns, 5V .....	2.95	2.25	1.75
39984	◆	27128A-25◆	DIP-28	16k x 8	250ns, 5V .....	3.95	3.75	3.49
39968	◆	27128A-20◆	DIP-28	16k x 8	200ns, 5V .....	4.25	3.95	3.55
39950	◆	27128A-15◆	DIP-28	16k x 8	150ns, 5V .....	4.49	4.25	3.95
39685	◆	27C128-25◆	DIP-28	16k x 8	250ns, 5V .....	3.75	3.49	3.25
101101	◆	27C128-20◆	DIP-28	16k x 8	200ns, 5V .....	3.95	3.75	3.49
39677	◆	27C128-15◆	DIP-28	16k x 8	150ns, 5V .....	4.25	3.95	3.75
87935	◆	27C128-12◆	DIP-28	16k x 8	120ns, 5V .....	4.49	4.25	3.95
266061	◆	27C128-10	DIP-28	16k x 8	100ns, 5V .....	4.75	4.49	4.25
149665	◆	27C128-70	DIP-28	16k x 8	70ns, 5V .....	4.95	4.75	4.49
40045	◆	27256-20◆	DIP-28	32k x 8	200ns, 5V .....	2.55	2.25	1.95
40037	◆	27256-15◆	DIP-28	32k x 8	150ns, 5V .....	3.49	3.25	2.95
39731	◆	27C256-25◆	DIP-28	32k x 8	250ns, 5V .....	2.35	2.15	1.85
39722	◆	27C256-20◆	DIP-28	32k x 8	200ns, 5V .....	2.55	2.25	1.95
39714	◆	27C256-15◆	DIP-28	32k x 8	150ns, 5V .....	2.75	2.49	2.25
698111	ST	M27C256B-15F1◆	FDIP-28	32k x 8	150ns, 5V .....	3.95	3.49	3.25
65904	◆	27C256-12◆	DIP-28	32k x 8	120ns, 5V .....	3.49	2.95	2.75
698091	ST	M27C256B-12F1◆	FDIP-28	32k x 8	120ns, 5V, C-temp	4.25	3.75	3.49
112740	◆	27C256-10◆	DIP-28	32k x 8	100ns, 5V .....	3.75	3.25	2.95
698082	ST	M27C256B-10F1◆	FDIP-28	32k x 8	100ns, 5V .....	4.49	3.95	3.59
140476	◆	27C256-70◆	DIP-28	32k x 8	70ns, 5V .....	4.75	4.49	3.95
266079	◆	27C256-55	DIP-28	32k x 8	55ns, 5V .....	4.95	4.75	4.49
40168	◆	27512-25◆	DIP-28	64k x 8	250ns, 5V .....	1.49	1.25	.85
40150	◆	27512-20◆	DIP-28	64k x 8	200ns, 5V .....	1.59	1.35	.95
39802	◆	27C512-25◆	DIP-28	64k x 8	250ns, 5V .....	2.25	1.95	1.75
39790	◆	27C512-20◆	DIP-28	64k x 8	200ns, 5V .....	2.49	2.25	1.95
39781	◆	27C512-15◆	DIP-28	64k x 8	150ns, 5V .....	2.75	2.49	2.25
39773	◆	27C512-12◆	DIP-28	64k x 8	120ns, 5V .....	2.95	2.75	2.49
698226	ST	M27C512-12F1◆	FDIP-28	64k x 8	120ns, 5V .....	4.19	3.95	3.75
131599	◆	27C512-10◆	DIP-28	64k x 8	100ns, 5V .....	3.25	2.95	2.75
175206	◆	27C512-90◆	DIP-28	64k x 8	90ns, 5V .....	3.25	2.95	2.75
203625	◆	27C512-70	DIP-28	64k x 8	70ns, 5V .....	3.95	3.75	3.49
203617	◆	27C512-45	DIP-28	64k x 8	45ns, 5V .....	3.95	3.75	3.49
203641	◆	27C1024-12	DIP-40	64k x 16	120ns, 5V .....	4.95	4.75	4.49
118148	◆	27C1024-15	DIP-40	64k x 16	150ns, 5V .....	4.49	4.25	3.95
39669	◆	27C010-20◆	DIP-32	128k x 8	200ns, 5V .....	1.95	1.49	.95
39651	◆	27C010-15◆	DIP-32	128k x 8	150ns, 5V .....	3.49	3.25	2.95
697987	ST	M27C1001-15F1◆	FDIP-32	128k x 8	150ns, 5V .....	4.95	4.75	4.49
74624	◆	27C010-12◆	DIP-32	128k x 8	120ns, 5V .....	2.39	2.25	1.45
697961	ST	M27C1001-12F1◆	FDIP-32	128k x 8	120ns, 5V .....	4.49	4.25	3.95
79231	◆	27C010-10◆	DIP-32	128k x 8	100ns, 5V .....	3.95	3.75	3.49
697944	ST	M27C1001-10F1◆	FDIP-32	128k x 8	100ns, 5V .....	4.75	4.49	4.25

◆ Refurbished = Backed by Jameco    † FDIP = Ceramic frit seal

## EPROMs (Continued)

\*Web Code: XAF

Part No.	*Mfr.	Product No.	Pkg.	Config.	Description	1	10	100
146149	◆	27C010-70◆	DIP-32	128k x 8	70ns, 5V .....	\$4.25	\$3.95	\$3.75
698007	ST	M27C1001-70F1◆	FDIP-32	128k x 8	70ns, 5V .....	4.75	4.49	4.25
65681	◆	27C020-20◆	DIP-32	256k x 8	200ns, 5V .....	1.95	1.49	1.15
65699	◆	27C020-15◆	DIP-32	256k x 8	150ns, 5V .....	3.75	3.49	3.25
78852	◆	27C020-12◆	DIP-32	256k x 8	120ns, 5V .....	3.95	3.75	3.49
698031	ST	M27C2001-12F1◆	FDIP-32	256k x 8	120ns, 5V .....	5.95	5.49	4.95
156267	◆	27C020-10	DIP-32	256k x 8	100ns, 5V .....	4.25	3.95	3.75
127933	◆	27C4096-12	DIP-40	256k x 16	120ns, 5V .....	5.95	5.49	4.95
85462	◆	27C040-15◆	DIP-32	512k x 8	150ns, 5V .....	4.49	4.25	3.95
102293	◆	27C040-12◆	DIP-32	512k x 8	120ns, 5V .....	4.95	4.75	4.49
111780	◆	27C040-10◆	DIP-32	512k x 8	100ns, 5V .....	4.95	4.75	4.49
203676	◆	27C040-80	DIP-32	512k x 8	80ns, 5V .....	5.75	5.25	4.75
698189	ST	M27C4001-80XF1◆	FDIP-28	512k x 8	80ns, 5V (±5%)	5.75	5.25	4.75
266124	◆	27C040-70	DIP-32	512k x 8	70ns, 5V .....	5.95	5.49	4.95
156275	◆	27C080-10	DIP-32	1M x 8	100ns, 5V .....	6.95	6.49	5.95
203684	◆	27C080-90	DIP-32	1M x 8	90ns, 5V .....	7.49	6.75	6.25
265842	◆	27C800-12	DIP-42	1M x 8	120ns, 5V .....	5.95	4.95	3.95

◆ Refurbished = Backed by Jameco

† FDIP = Ceramic frit seal

## OTP/PROMs

\*Web Code: WAG

Part No.	*Mfr.	Product No.	Pkg.	Config.	Description	1	10	100
48717	◆	74S288	DIP-16	32 x 8	256-bit, 5V, 25ns, PROM	\$10.95	\$9.95	\$8.95
27844	◆	N82S23	DIP-16	32 x 8	256-bit, 7V, 50ns, PROM	5.95	4.95	3.95
27764	◆	N82S123	DIP-16	32 x 8	256-bit, 7V, 50ns, PROM	11.95	10.95	9.95
48696	◆	74S287	DIP-16	256 x 4	1-kbit, 5V, 30ns, PROM	8.49	7.49	6.49
48805	◆	74S387	DIP-16	256 x 4	1-kbit, 5V, 30ns, PROM	3.95	3.75	3.49
27772	◆	N82S126	DIP-16	256 x 4	1-kbit, 5V, 50ns, PROM	5.95	5.25	4.75
27781	◆	N82S129	DIP-16	256 x 4	1-kbit, 7V, 50ns, PROM	10.95	9.95	8.95
27799	◆	N82S131	DIP-16	512 x 4	2-kbit, 7V, 50ns, PROM	9.95	8.95	7.95
27810	◆	N82S181	DIP-24	1k x 8	8-kbit, 7V, 70ns, PROM	8.95	7.95	6.95
27828	◆	N82S185	DIP-18	2k x 4	8-kbit, 7V, 100ns, PROM	2.95	2.49	1.75
27836	◆	N82S191	DIP-24	2k x 8	16-kbit, 7V, 35ns, PROM	5.95	4.95	3.95
394978	ATM	AT27C256R-45J1	PLCC-32	32k x 8	256-kbit, 45ns OTP, LP, I-temp.	1.25	.95	.75
394986	ATM	AT27C256R-45PU◆	DIP-28	32k x 8	256-kbit, 45ns OTP, LP, I-temp.	1.95	1.75	1.49
395081	ATM	AT27C512R-70PU◆	DIP-28	64k x 8	512-kbit, 5V, 70ns, I-temp, OTP	2.25	1.95	1.75
203692	◆	27C512-12	DIP-28	64k x 8	512-kbit, 5V, 100ns, OTP	1.35	1.19	1.09
394708	ATM	AT27C010-70PU◆	DIP-32	128k x 8	1-Mbit, 5V, 70ns, I-temp., OTP	2.95	2.75	2.49
267303	◆	27C080-10	PLCC-32	1M x 8	8-Mbit, 5V, 100ns, OTP	3.95	3.49	3.25
267215	◆	27C080-15	PLCC-32	1M x 8	8-Mbit, 5V, 150ns, OTP	2.95	2.49	1.95

## EEPROMs

Please Note: Manufacturer may vary

\*Web Code: GAM

\* Order in multiples of 10

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
102058	93C46	DIP-8	64 x 16	3-wire serial, 2-5V .....	\$2.25	\$2.22	\$1.19
276955	93C46	SOIC-8	64 x 16	3-wire serial, 2-5V .....	*	.12	.09
108855	93C56	DIP-8	128 x 16	3-wire serial, 2-5V .....	*	.19	.15
108839	24C02P	DIP-8	256 x 8	2-wire serial, 5V .....	*	.15	.12
200598	93C66	DIP-8	256 x 16	3-wire serial, 2-5V .....	.35	.29	.25
108847	24C04P	DIP-8	512 x 8	2-wire serial, 2-5V .....	.45	.39	.35
200547	24C08-10	DIP-8	1k x 8	2-wire serial, 2-5V .....	*	.15	.12
200555	24C16-10	DIP-8	2k x 8	2-wire serial, 5V .....	.45	.39	.35
74691	28C16A-25	DIP-24	2k x 8	Page parallel, 5V .....	3.95	3.75	3.49
276701	28C17	DIP-28	2k x 8	Page parallel, 5V .....	3.95	3.75	3.49
40416	2817A-25	DIP-28	2k x 8	Page parallel, 5V .....	3.95	2.95	2.25
276752	28C64	SOIC-28	8k x 8	Page parallel, 5V .....	1.49	1.15	.95
74827	28C64A-25	DIP-28	8k x 8	Page parallel, 5V .....	3.75	3.49	3.25
40475	2865A	DIP-28	8k x 8	5V with latches .....	5.95	5.49	4.95
276816	28C256-15SC	SOIC-28	32k x 8	Page parallel, 5V .....	4.95	4.49	3.95
200580	24C256-10	DIP-8	32k x 8	2-wire serial, 2-5V .....	1.49	1.35	1.19
74878	28C256-25	DIP-28	32k x 8	Page parallel, 5V .....	5.95	5.49	4.95
74843	28C256-15	DIP-28	32k x 8	Page parallel, 5V .....	5.49	5.25	4.49





## EEPROMs (Continued)

Please Note: Manufacturer may vary

★ Web Code: GAM

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
276832	24C512	DIP-8	64k x 8	2-wire serial, 2-5V .....	\$1.95	\$1.75	\$1.49
1010868	AT24C512BN-SH-B	SOIC-8	64k x 8	2-wire serial, 1.8-3.6V .....	1.49	1.25	.95
276912	24C1024	DIP-8	128k x 8	2-wire serial, 2.7-5V .....	5.95	5.49	5.25
395372	AT28LV010-20TC	TSSOP-32	128k x 8	Page parallel, 3.3V .....	29.95	26.95	22.95

## IC Accessories

\* Order in multiples of 10

Part No.	Product No.	Description	1	10
13864	CF2	Conductive foam (12" x 24" x .25") hard black .....	\$11.95	\$10.95
29516	RIC20	.300" anti-static rail for 8, 14, 16, 18, 20 & 22-pin ICs .....	.25	.22
29524	RIC220	.600" anti-static rail for 24, 28, 36 & 40-pin ICs .....	.29	.25
29583	RRC	Storage tube rubber stopper .....	*	.07

Additional Anti-Static Products, IC Accessories and Tools see page 154

★ PC SMBus Available Online — Enter Web Code SAS

## Static RAM

★ Web Code: WAF

Part No.	*Mfr.	Product No.	Pkg.	Config.	Description	1	10	100
38931	◆	2111-1	DIP-18	256 x 4	1-Kbit, 5V, 500ns .....	\$1.95	\$1.75	
42198	◆	5101★	DIP-22	256 x 4	1-Kbit, 5V, 450ns .....	7.95	6.95	
38957	◆	2114N	DIP-18	1k x 4	4-Kbit, 5V, 450ns .....	2.25	1.95	
43238	◆	6514	DIP-18	1k x 4	4-Kbit, 5V, 300ns .....	2.95	2.75	
38973	◆	2114N-2	DIP-18	1k x 4	4-Kbit, 5V, 200ns .....	2.49	2.25	
38981	◆	2114N-2L	DIP-18	1k x 4	4-Kbit, 5V, 450ns, LP .....	2.69	2.39	
38738	◆	2016-12	DIP-24	2k x 8	16-Kbit, 5V, 120ns .....	1.25	1.15	
38746	◆	2016-20★	DIP-24	2k x 8	16-Kbit, 5V, 200ns .....	1.15	1.05	
114260	DAL	DS1220Y-150	DIP-24	2k x 8	16-Kbit, 5V, 150ns, NV .....	12.95	10.95	
25911	◆	MK48Z02B-15	DIP-24	2k x 8	16-Kbit, 5V, 150ns .....	7.95	6.95	
42809	◆	6116P-3★	DIP-24	2k x 8	16-Kbit, 5V, 150ns .....	1.75	1.55	
42753	◆	6116LP-3★	DIP-24	2k x 8	16-Kbit, 5V, 150ns, LP .....	1.85	1.65	
42788	◆	6116P-1★	DIP-24	2k x 8	16-Kbit, 5V, 100ns .....	1.85	1.65	
242676	◆	L6116PC10	DIP-24	2k x 8	16-Kbit, 5V, 100ns .....	1.49	1.19	
42796	◆	6116P-2★	DIP-24	2k x 8	16-Kbit, 5V, 120ns .....	1.49	1.25	
42737	◆	6116LP-1★	DIP-24	2k x 8	16-Kbit, 5V, 100ns, LP .....	1.95	1.75	
242683	CPS	CY7C128A-45	DIP-24	2k x 8	16-Kbit, 5V, 45ns, Asynch. ....	2.95	2.75	
242675	◆	6116-70	DIP-24	2k x 8	16-Kbit, 5V, 70ns .....	2.25	1.95	
392446	◆	CY7C4235V-15ASC	STQFP-64	2k x 18	36-Kbit, 3.3V, 15ns, Synch. FIFO ..	13.95	11.95	
242333	◆	CY7C185-35	DIP-28	8k x 8	64-Kbit, 5V, 35ns, Asynch. ....	2.49	2.25	
1927473	ALM	AS6C6264-55PCN	PDIP-28	8k x 8	64k LP, 55ns, 2.7-5.5V, C-temp .....	1.95	1.49	
392294	CPS	CY6264-70SNC	SOIC-28	8k x 8	64-Kbit, 5V, 70ns .....	.99	.75	
85121	◆	6264LP-70	DIP-28	8k x 8	64-Kbit, 5V, 70ns, LP .....	3.75	3.49	
42884	◆	6264LP-10★	DIP-28	8k x 8	64-Kbit, 5V, 100ns, LP .....	2.95	2.75	
42921	◆	6264AP-10★	DIP-28	8k x 8	64-Kbit, 5V, 100ns .....	2.75	2.49	
42892	◆	6264LP-12★	DIP-28	8k x 8	64-Kbit, 5V, 120ns, LP .....	2.75	2.49	
42930	◆	6264AP-12★	DIP-28	8k x 8	64-Kbit, 5V, 120ns .....	2.49	2.25	
114278	DAL	DS1225AB-15	DIP-28	8k x 8	64-Kbit, 5V, 150ns, NV .....	14.95	12.95	
114307	DAL	DS1225Y-200	DIP-28	8k x 8	64-Kbit, 5V, 200ns, NV .....	11.95	10.95	
242376	◆	CY7C199P-35	DIP-28	32k x 8	256-Kbit, 5V, 35ns, LP Asynch. ....	1.95	1.75	
177113	DAL	DS1230Y-100	DIP-28	32k x 8	256-Kbit, 5V, 100ns, NV .....	14.95	12.95	
114323	DAL	DS1230Y-150	DIP-28	32k x 8	256-Kbit, 5V, 150ns, NV .....	12.95	11.95	
41970	◆	43256-10L★	DIP-28	32k x 8	256-Kbit, 5V, 100ns, LP .....	3.95	3.75	
41988	◆	43256-12L★	DIP-28	32k x 8	256-Kbit, 5V, 120ns, LP .....	3.75	3.49	
75037	◆	UM61M256K-15	DIP-28	32k x 8	256-Kbit, 5V, 15ns .....	3.95	3.49	
82472	◆	62256LP-70	DIP-28	32k x 8	256-Kbit, 5V, 70ns, LP .....	2.75	2.49	
391793	CPS	CY62256L-70PC	DIP-28	32k x 8	256-Kbit, 5V, 70ns .....	3.49	3.25	
391822	CPS	CY62256LL-70PC	DIP-28	32k x 8	256-Kbit, 5V, 70ns, LP .....	3.59	3.39	
391890	CPS	CY62256LL-70SNC	SOIC-28	32k x 8	256-Kbit, 5V, 70ns, LP .....	1.75	1.55	
42876	◆	62256LP-85	DIP-28	32k x 8	256-Kbit, 5V, 85ns, LP .....	2.65	2.45	
42833	◆	62256LP-10★	DIP-28	32k x 8	256-Kbit, 5V, 100ns, LP .....	2.49	2.15	
42850	◆	62256LP-12★	DIP-28	32k x 8	256-Kbit, 5V, 120ns, LP .....	2.25	2.05	

★ Pull = Extra Savings

\* ALM = Alliance Memory | CPS = Cypress Semiconductor | DAL = Dallas Semiconductor | ◆ Manufacturer Varies

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## Static RAM (Continued)

★ Web Code: WAF

Part No.	*Mfr.	Product No.	Pkg.	Config.	Description	1	10	100
279831	CPS	CY7C199-25VC	SOJ-28	32k x 8	256-Kbit, 5V, 25ns .....	\$1.75	\$1.49	
279857	◆	62256S-15	SOJ-28	32k x 8	256-Kbit, 5V, 150ns .....	.99	.75	
1927457	ALM	AS6C1008-55PCN	PDIP-32	128k x 8	1M LP, 55ns, 2.7-5.5V, C-temp .....	3.95	3.75	
391831	CPS	CY62128BLL-70SC	SOIC-32	128k x 8	1-Mbit, 5V, 70ns, LP .....	2.49	2.25	
391996	CPS	CY62128BLL-70ZC	TSSOP-32	128k x 8	1-Mbit, 5V, 70ns, LP .....	1.95	1.75	
131810	◆	628128LP-70	DIP-32	128k x 8	1-Mbit, 5V, 70ns, LP .....	6.95	5.95	
103982	◆	628128LP-85★	DIP-32	128k x 8	1-Mbit, 5V, 85ns, LP .....	4.95	4.49	
1927617	ALM	AS6C4008-55PCN	PDIP-32	512k x 8	4M LP, 55ns, 2.7-5.5V, C-temp .....	5.95	5.49	
242448	◆	BS62LV4006PIP-55	PDIP-32	512k x 8	4M LP, 55ns, 2.4-5.5V, I-temp .....	18.95	16.95	
157358	◆	628512LP-70	DIP-32	512k x 8	4-Mbit, 5V, 70ns, LP .....	17.95	15.95	
280049	◆	628512S-70	SOP-32	512k x 8	4-Mbit, 5V, 20ns, Asynch. ....	4.95	4.49	
1862446	◆	IS61WV2048BLL-IOMLL	BGA-48	2M x 8	16M, 2.4-3.6V, 10ns .....	24.95	21.95	

★ Pull = Extra Savings

## DRAM

Please Note: Manufacturer may vary

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
41339	4116-15	DIP-16	16k x 1	150ns (MM5290J-1R) .....	\$ .99	\$ .89	\$ .79
41662	4164-150★	DIP-16	64k x 1	150ns (MCM6665-15) .....	.99	.89	.79
41574	41464-10★	DIP-18	64k x 4	100ns (HY53C464S-10) .....	1.69	1.59	1.45
41398	41256-120★	DIP-16	256k x 1	120ns (MB81256-12) .....	.79	.69	.59
42315	514256P-80★	DIP-20	256k x 4	80ns (UPD424256-80) .....	.99	.89	.69
93374	514256P-70★	DIP-20	256k x 4	70ns (TC514256P-70) .....	1.55	1.39	1.25
128688	HM514260AJ7★	SOJ-40	256k x 16	70ns .....	2.95	2.75	2.49
42219	511000P-10	DIP-18	1M x 1	100ns (M5M4C1000-10) .....	1.95	1.49	1.25

★ Pull = Extra Savings

★ SDRAMs Available Online — Enter Web Code RAY

## Legacy Intel® Desktop Processors

Part No.	Description	Speed (MHz)	Package	1	10
183100	Intel Pentium® II processor	400	Slot 1 .....	\$29.95	\$24.95
190060	Intel Pentium® II w/ heat sink	233	Slot 1 .....	19.95	17.95
140054	Intel Pentium MMX® processor★	200	376/PGA .....	12.95	10.95
130841	Intel Pentium® processor	166	296/PGA .....	7.95	6.95

★ Pull = Extra Savings

## Memory Modules

Please Note: Manufacturer may vary

★ Web Code: GAG

Part No.	Product No.	Capacity	Description	Config.	Pins	1	10
148460	8MBX36-60	32MB	60ns SIMM	8M x 36	72 .....	\$17.95	\$14.95
75096	P362000-XX-6	8MB	60ns SIMM	2M x 36	72 .....	8.95	7.95
130729	JEED07208	8MB	60ns SIMM EDO	2M x 32	72 .....	1.25	.75
75133	P361000-XX-6	4MB	60ns SIMM	1M x 36	72 .....	6.95	5.95

## Flash Memory

Please Note: Manufacturer may vary

★ Web Code: KAJ

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
74771	28F010-15	DIP-32	128k x 8	150ns, 5V .....	\$2.95	\$2.49	\$1.95
242587	29F010-120	DIP-32	128k x 8	120ns, 5V .....	2.95	2.75	2.49
242595	29F010-90	DIP-32	128k x 8	90ns, 5V .....	3.75	3.49	3.25
242608	29F010-70	DIP-32	128k x 8	70ns, 5V .....	3.95	3.59	3.35
74835	28F020-15	DIP-32	256k x 8	150ns, 5V .....	4.25	3.95	3.75
242616	29F020-12	DIP-32	256k x 8	120ns, 5V .....	4.49	4.25	3.95
242659	29F040-120	DIP-32	512k x 8	120ns, 5V .....	3.95	3.75	3.49
242667	29F040-90	DIP-32	512k x 8	90ns, 5V .....	4.25	3.95	3.75
1912896	S29GL128N10T1010	TSSOP-56	16M x 8	100ns, 3.6V .....	5.95	4.95	3.95

★ Boot Block Flash Available Online — Enter Web Code MEH

★ Zilog Flash MCUs Available Online — Enter Web Code JAF

# Supervisory, Dallas, PLDs & Microcontrollers

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

## MAXIM Supervisory

★ Web Code: SCT

Part No.	Mfr. Part No.	Pkg.	Description	1	10
884897	MAX691ACPE	DIP-16	µP supervisory circuit (C-temp)	\$4.95	\$3.75

## MPU Supervisory

Please Note: Manufacturer may vary

★ Web Code: PAN

Part No.	Product No.	Pkg.	Description	1	10	100
106219	MAX690CPA	DIP-8	Watchdog timer, 4.4V	\$3.95	\$3.59	\$3.25
1802620	ADM705ANZ	DIP-8	Low cost microprocessor	.95	.75	.55

★ CPLDs and FPGAs Available Online — Enter Web Code SAZ

## DALLAS SEMICONDUCTORS

★ Web Code: QDH

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
114198	DS1210	DIP-8	NV controller chip	\$3.95	\$3.25	\$2.49
114219	DS1213C	DIP-28	Smart socket	19.95	17.95	16.95
133410	DS1216C	DIP-28	Smart watch/RAM	25.95	22.95	17.95
114331	DS1232LP	DIP-8	Micromonitor chip	1.95	1.65	1.29
697231	DS1243Y-120+R	DIP-28	64k NV SRAM w/ phantom clock	19.95	17.95	15.95
133444	DS1286	DIP-28	Watchdog timekeeper	19.95	17.95	15.95
76646	DS1287	DIP-24	Real time clock chip	7.95	7.25	6.49
176778	DS1302	DIP-8	Trickle charge time keeping	2.95	2.49	1.75
780481	DS1302+R	DIP-8	Trickle charge time keeping chip, C-temp	3.25	2.65	1.95
1194679	DS1307R	DIP-8	5V, 64 x 8 serial I2C real time clock, C-temp	3.49	2.75	1.75
114374	DS1387★	DIP-24	RAMified real time clock	4.95	4.49	3.95
114382	DS1620	DIP-8	Digital thermometer and thermostat	5.95	4.95	3.49
865936	DS18B20R	TO-92	Prog. resolution 1-wire digital thermometer	4.25	3.75	3.49
133452	DS12887	DIP-24	Real time clock chip	6.95	5.95	4.95

★ Pull = Extra Savings

## PALs, GALs & PEELs

★ Web Code: YAD

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10
28020	◆	PAL16L8	DIP-20	Octal 16-input AND-OR-INVERT gate array	\$1.95	\$1.75
111667	◆	PAL16R6ANC	DIP-20	TTL, 32 x 64 AND array	.59	.35
652615	◆	GAL16V8-7	DIP-20	7ns 64 x 32 AND array	1.85	1.65
88399	◆	GAL16V8-10*	DIP-20	10ns 64 x 32 AND array	2.25	1.95
37452	◆	GAL16V8-15*	DIP-20	15ns 64 x 32 AND array	1.95	1.65
37461	◆	GAL16V8-25*	DIP-20	25ns 64 x 32 AND array	1.75	1.49
876539	LAT	GAL16V8D-25LP	DIP-20	25ns 64 x 32 AND array	1.25	1.15
312995	◆	16CV8P-25	DIP-20	25ns 64 x 32 AND array, PEEL	.75	.55
38658	◆	GAL20V8-15**	DIP-24	15ns 64 x 40 AND array	1.59	1.45
38666	◆	GAL20V8-25	DIP-24	25ns 64 x 40 AND array	1.49	1.15
105996	ANA	22CV10AP-25	DIP-24	25ns 132 x 44 AND array, PEEL	2.95	2.75
39159	◆	GAL22V10-15	DIP-24	15ns 132 x 44 AND array	3.75	3.49
39167	◆	GAL22V10-25	DIP-24	25ns 132 x 44 AND array	2.95	2.75
1247902	LAT	GAL22V10D-25LJI	PLCC-28	25ns 132 x 44 AND array	2.25	1.95
2065633	LAT	LC4128V-75TN100C	TOFP-100	333MHz 128mc 3.3V	16.75	16.19

GALs are electrically erasable, CMOS PLDs that can be reprogrammed and can be used in place of numerous PALs

\* Replaces PALs: 10H8, 10L8, 10P8, 12H6, 12L6, 12P6, 14H4, 14L4, 14P4, 16H2, 16H8, 16L2, 16L8, 16P2, 16P8, 16R4, 16R6, 16R8, 16RP4, 16RP6, 16RP8, 14H8, 14L8, 14P8, 16H6, 16L6, 16P6

\*\* Replaces PALs: 18H4, 18L4, 18P4, 20H2, 20H8, 20L2, 20L8, 20P2, 20P8, 20R4, 20R6, 20R8, 20RP4, 20RP6, 20RP8

## Voice Chip

★ Web Code: XAU

### Single-Chip Voice Record/Playback Device

- Manual switch or microprocessor controllable
- Directly cascadable for longer durations
- Single voltage operation: +5V (4.5V to 5.5V operating range)
- Playback can be edge or level-activated • 28-pin DIP
- Typical 100k record cycles, 1µA standby current and 100 year message retention

Part No.	Mfr. Part No.	Description	1	10	50
141671	ISD1110P	Voice record/playback (10 sec.)	\$6.95	\$6.25	\$5.49



## Microcontrollers

★ Web Code: PAV

Part No.	*Mfr.	Mfr. Part No.	Pkg.	Description	1	10
145040	MCH	PIC12C508A-04/P	DIP-8	512 OTP, 4MHz, 5 I/O, C-temp	\$ .95	\$ .85
144258	MCH	PIC12C509A-04/P	DIP-8	1k OTP, 4MHz, 5 I/O, C-temp	.95	.85
145058	MCH	PIC12C509AJW	DIP-8	1k EPROM, 41-bit, 4MHz, 5 I/O	8.95	7.95
193455	MCH	PIC12C671-04/P	DIP-8	1k OTP, 128-bit, 4MHz, 6 I/O	1.75	1.49
193463	MCH	PIC12C672-04/P	DIP-8	2k OTP, 128-bit, 4MHz, 6 I/O	1.75	1.49
248145	MCH	PIC12CE674-10/P	DIP-8	2k OTP, 128-bit, 10MHz, 5 I/O	2.49	1.95
223790	MCH	PIC12F629-I/P	DIP-8	1k flash, 20MHz, 6 I/O, I-temp	.95	.89
223781	MCH	PIC12F675-I/P	DIP-8	1k flash, 20MHz, 6 I/O, I-temp	.99	.95
312514	MCH	PIC12F683-I/P	DIP-8	2k flash, 20MHz, 6 I/O, I-temp	1.39	1.29
128338	MCH	PIC16C54A-04/P	DIP-18	512 OTP, 4MHz, 12 I/O, C-temp	1.39	1.29
247214	MCH	PIC16C54C-20/P	DIP-18	512 OTP, 25-bit, 20MHz, 12 I/O	1.25	.95
200416	MCH	PIC16C55A-04/P	DIP-28	512 OTP, 24-bit, 4MHz, 20 I/O	1.95	1.59
193341	MCH	PIC16C57C-04/P	DIP-28	2k OTP, 4MHz, 20 I/O, C-temp	2.09	1.95
200424	MCH	PIC16C66-04/SP	DIP-18	8k OTP, 368-bit, 4MHz, 22 I/O	4.95	4.49
247484	MCH	PIC16C67-20/P	DIP-40	8k OTP, 368-bit, 20MHz, 33 I/O	5.49	5.25
247695	MCH	PIC16C72A-20/P	DIP-28	2k OTP, 128-bit, 20MHz, 22 I/O	3.95	3.55
193359	MCH	PIC16C711-04/P	DIP-18	1k OTP, 4MHz, 13 I/O, C-temp	2.25	2.15
247599	MCH	PIC16C711-20/P	DIP-18	1k OTP, 68-bit, 20MHz, 13 I/O	2.75	2.49
247601	MCH	PIC16C711-20/SO	SOIC-18	1k OTP, 68-bit, 20MHz, 13 I/O	2.75	2.49
247759	MCH	PIC16C773-I/SP	DIP-28	4k OTP, 256-bit, 20MHz, 22 I/O	4.95	4.49
145111	MCH	PIC16F84A-04/P	DIP-18	1k flash, 4MHz, 13 I/O, C-temp	3.55	3.45
145120	MCH	PIC16F84-10/P	DIP-18	1k flash, 10MHz, 13 I/O, C-temp	6.95	6.75
193332	MCH	PIC16F84A-20/P	DIP-18	1k flash, 20MHz, 13 I/O, C-temp	3.79	3.69
246861	MCH	PIC16F84A-20/P	DIP-18	1k flash, 20MHz, 13 I/O, I-temp	4.15	4.05
246887	MCH	PIC16F84A-20/SS	SSOP-20	68-bit, 1k flash, 20MHz, 13 I/O	4.95	4.49
247097	MCH	PIC16F87-I/P	DIP-18	4k flash, 20MHz, 16 I/O, I-temp	3.49	3.25
312733	MCH	PIC16F88-I/P	DIP-18	4k flash, 20MHz, 16 I/O, I-temp	3.25	2.95
193439	MCH	PIC16F627-20/P	DIP-18	1k flash, 20MHz, 16 I/O, C-temp	2.95	2.75
193447	MCH	PIC16F628-20/P	DIP-18	2K flash, 20MHz, 16 I/O, C-temp	3.25	2.95
246756	MCH	PIC16F628-20/P	DIP-18	2k flash, 20MHz, 16 I/O, I-temp	3.59	3.45
223749	MCH	PIC16F630-I/P	DIP-14	1k flash, 20MHz, 12 I/O, I-temp	1.29	1.19
247142	MCH	PIC16F648A-I/P	DIP-18	4k flash, 20MHz, 16 I/O, I-temp	2.25	1.95
232757	MCH	PIC16F676-I/P	DIP-14	1k flash, 20MHz, 12 I/O, I-temp	1.39	1.29
312590	MCH	PIC16F684-I/P	DIP-14	2k flash, 20MHz, 12 I/O, I-temp	1.59	1.49
312611	MCH	PIC16F688-I/P	DIP-14	4k flash, 20MHz, 12 I/O, I-temp	1.95	1.75
2127523	MCH	PIC16F690-I/P	DIP-20	7k flash, 20MHz, 18 I/O	1.89	1.75
223765	MCH	PIC16F818-I/P	DIP-18	1k flash, 20MHz, 16 I/O, I-temp	2.09	1.95
247071	MCH	PIC16F819-I/SS	SSOP-20	256-bit, 2k flash, 20MHz, 16 I/O	2.15	1.95
223773	MCH	PIC16F819-I/P	DIP-18	2k flash, 20MHz, 16 I/O, I-temp	2.59	2.25
246895	MCH	PIC16F870-I/SP	DIP-28	2k flash, 20MHz, 22 I/O, I-temp	2.95	2.75
246941	MCH	PIC16F872-I/SP	DIP-28	2k flash, 20MHz, 22 I/O, I-temp	2.95	2.75
246975	MCH	PIC16F873A-I/SP	DIP-28	4k flash, 20MHz, 22 I/O, I-temp	3.95	3.75
193367	MCH	PIC16F876-20/SP	DIP-28	8k flash, 20MHz, 22 I/O, C-temp	5.95	5.75
247011	MCH	PIC16F876A-I/SP	DIP-28	8k flash, 20MHz, 22 I/O, I-temp	4.49	4.35
247046	MCH	PIC16F877A-I/L	PLCC-44	8k flash, 20MHz, 33 I/O, I-temp	5.65	5.45
176882	MCH	PIC16F877-20/P	DIP-40	8k flash, 20MHz, 22 I/O, C-temp	5.65	5.45
247038	MCH	PIC16F877A-I/P	DIP-40	8k flash, 20MHz, 33 I/O, I-temp	4.85	4.69
2127531	MCH	PIC16F886-I/P	DIP-28	14k flash, 20MHz, 25 I/O	1.95	1.85
2127540	MCH	PIC16F887-I/P	DIP-40	14k flash, 20MHz, 35 I/O	2.15	2.05
247880	MCH	PIC17C42A-16/L	PLCC-44	2k OTP, 232-bit, 16MHz, 33 I/O	7.95	6.95
247901	MCH	PIC17C43-25/L	PLCC-44	4k OTP, 454-bit, 25MHz, 33 I/O	9.95	8.95
247919	MCH	PIC17C44-33/P	DIP-40	8k OTP, 454-bit, 33MHz, 33 I/O	9.95	8.95
247943	MCH	PIC17C756A-33/L	PLCC-68	16k OTP, 902-bit, 33MHz, 50 I/O	11.95	10.95
247951	MCH	PIC17C762-16/L	PLCC-44	8k OTP, 678-bit, 33MHz, 66 I/O	12.95	11.95
247960	MCH	PIC17C766-33/L	PLCC-84	16k OTP, 902-bit, 33MHz, 66 I/O	14.95	12.95
200491	MCH	PIC18C242-I/SP	DIP-28	16k OTP, 512-bit, 40MHz, 23 I/O	4.95	4.25
200504	MCH	PIC18C252-I/SP	DIP-28	32k OTP, 1536-bit, 40MHz, 23 I/O	5.49	4.95
247994	MCH	PIC18F252-I/SP	DIP-28	32k flash, 40MHz, 23 I/O, I-temp	5.39	5.25
248081	MCH	PIC18F442-I/L	PLCC-44	768-bit, 8k flash, 40MHz, 34 I/O	5.95	5.75
312477	MCH	PIC18F448-I/L	PLCC-44	768-bit, 16k flash, 40MHz, 33 I/O	7.95	6.49
248031	MCH	PIC18F452-I/P	DIP-40	32k flash, 40MHz, 34 I/O, I-temp	5.95	5.75
248057	MCH	PIC18F458-I/P	DIP-40	32k flash, 40MHz, 33 I/O, I-temp	6.95	6.75
248129	MCH	PIC18F1320-I/SO	SOIC-18	256-bit, 4k flash, 40MHz, 16 I/O	2.49	2.25
248111	MCH	PIC18F1320-I/P	DIP-18	8k flash, 40MHz, 16 I/O, I-temp	4.09	3.95

Microcontrollers continued on next page

\* ANA = Anachip | LAT = Lattice Semiconductor | MCH = Microchip | ◆ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.





## Microcontrollers (Continued)

\*Web Code: PAV

Part No.	*Mfr.	Mfr. Part No.	Pkg.	Description	1	10
312303	MCH	PIC18F2525-I/SP	DIP-28	48k flash, 40MHz, 25 I/O, I-temp	\$6.49	\$6.25
248330	ATM	ATMEGA8-16PI	DIP-28	8kB flash, 16MHz, 23 I/O, I-temp	4.75	4.25
765302	ATM	ATTINY13-20PU	DIP-8	1kB flash, 20MHz, 6 I/O, I-temp	2.25	2.05
168874	ATM	AT89C2051-24PU	DIP-20	2kB flash, 24MHz, 15 I/O, C-temp	1.49	1.35
204089	ATM	AT89C4051-24PC	DIP-20	4kB flash, 24MHz, 15 I/O, C-temp	2.45	2.15
689039	ATM	ATTINY2313V-10PU	DIP-20	2kB flash, 10MHz, 18 I/O, I-temp	2.49	1.75
1537061	ATM	ATTINY2313-20PU	DIP-20	2k flash, 20MHz, 18 I/O, I-temp	2.95	2.49
323141	ATM	ATMEGA8515-16PC	DIP-40	8kB flash, 16MHz, 35 I/O, C-temp	4.95	4.75
395621	ATM	ATMEGA8515L-8PC	DIP-40	8kB flash, 8MHz, 35 I/O, C-temp	3.75	3.49
168911	ATM	AT89C51-24JC	PLCC-44	4kB flash, 24MHz, 32 I/O, C-temp	2.95	2.75
168903	ATM	AT89C51-24PC	DIP-40	4kB flash, 24MHz, 32 I/O, C-temp	2.95	2.75
168920	ATM	AT89C52-24PC	DIP-40	8kB flash, 24MHz, 32 I/O, C-temp	2.95	2.49
220871	ATM	AT89S52-24JI	PLCC-44	8kB flash, 24MHz, 32 I/O, I-temp	1.35	1.25
662637	ATM	AT89S52-24PC	DIP-40	8kB flash, 24MHz, 32 I/O, C-temp	1.95	1.75
168946	ATM	AT89C55WD-24PC	DIP-40	20kB flash, 24MHz, 32 I/O, C-temp	3.49	3.25
114403	DAL	DS80C320-MCG	DIP-40	High speed LP micro, C-temp	10.95	8.95
1951035	ATM	AT89S8253-24PU	DIP-40	12kB flash, 24MHz, 32 I/O, I-temp	4.95	4.49
248663	TI	MSP430F1121AIPW	SSOP-20	16-bit MCU, flash, 8MHz 4k ROM, 14 I/O	2.49	2.15
1183970	CPS	CY8C24123A-24SXI	SOIC-8	4k flash, 256B SRAM	2.65	2.49

## PARALLAX 50MIPS SX Microcontroller

Part No.	Mfr. Part No.	Description	1	10
162931	SX28AC/DP-G	DIP-28 50MIPS SX microcontroller	\$4.95	\$4.49

## Micromint 80C52-BASIC Microcontroller

A custom-masked microcontroller with a full-featured 8k-byte ROM-resident BASIC-52 interpreter. 256 x 8-bit RAM.

- Full BASIC interpreter in ROM on a single chip
- Operates DC to 12MHz
- "Stand-alone" software development
- On-chip oscillator and clock circuit
- Interrupts can be handled by BASIC or Assembly Language

Part No.	Mfr. Part No.	Description	1	10	50
125647	80C52BASIC	40-pin CPU 8-bit CMOS w/ BASIC interpreter	\$33.95	\$31.95	\$29.95

## PARALLAX Propeller Microprocessor Chip

Designed for high-speed embedded processing while maintaining low-power and low-current consumption.

Complete specifications see [www.Jameco.com](http://www.Jameco.com)

Part No.	Mfr. Part No.	Package	1	10	50
2007134	P8X32A-D40	DIP-40	\$12.95	\$11.95	

## KAE Servo Controllers

\*Web Code: YBC

Controller operates from standard 8-bit serial interface (RS232 or RS485). Using RS485, any mix of up to 32 controllers may be operated from a single serial port. Complete documentation.

## 146472: PIC-SERVO Motion Control Chipset for DC Motors

- For DC motors with digital encoders
- 32-bit position, velocity and acceleration resolution
- PWM and direction outputs connect to servo amplifier
- Two chipset (PIC-SERVO V.4, 28-pin and PIC-ENC V.1, 18-pin)

## 323934: PIC-SERVO SC Servo Motion Control I.C.

- For DC motors (brush or brushless w/ incremental encoder feedback)
- Serial interface connects to RS232/485/422 communication port
- Position control, velocity control, trapezoidal profiling, plus step and direction inputs

Part No.	Mfr. Part No.	Package	1	10	50
146472	KAE-TOV4-DPS	DIP-28/18, 0.3"	\$35.95	\$32.95	\$30.95
323934	KAE-TOV10-DP	DIP-28, 0.3"	29.95	26.95	24.95

\* ATM = Atmel Semi | CPS = Cypress Semi | DAL = Dallas Semi | MAX = Maxim Semi | MCH = Microchip | TI = Texas Instruments | ♦ Manufacturer Varies

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## KAE Smart Serial Adapter

## Serial Converter/Stand Alone Host Controller

- Supports USB or RS232 serial interface
- Up to 32 NMC PIC-SERVO, PIC-STEP, PIC-I/O modules can be controlled from a single smart serial adapter
- RS232 operation supports baud rates from 19,200 to 115,200
- Supports Windows®, LINUX, Mac® OS, and other operating systems
- May be used as a stand alone host with either the simple sequencer chip or a PIC18F2620 MCU
- On board connector for MICROCHIP MPLAB ICD2

Part No.	Mfr. Part No.	Description	1	5
1586120	KAE-SSA485-BDV2	Smart serial adapter	\$99.95	\$89.95

## PARALLAX BASIC Stamp Modules

\*Web Code: BSM

- 183071: BS2 OEM Kit Z

Complete specifications see [www.Jameco.com](http://www.Jameco.com)

Part No.	Mfr. Part No.	Package	Speed	No. of I/O Pins	1	5
127693	BS1-IC	14-pin	4MHz	8	\$28.95	\$26.95
183071	27291	20-pin SIP	—	—	30.95	29.95
130892	BS2-IC	24-pin	20MHz	16 + 2	48.95	43.95
283047	BS2E-IC	24-pin	20MHz	16 + 2	53.95	49.95
2109641	BS2PE	24-pin	8MHz (turbo)	16 + 2	74.95	70.95
184911	BS2P24-IC	24-pin	20MHz (turbo)	16 + 2	74.95	69.95
184920	BS2P-40-IC	40-pin	20MHz (turbo)	16 + 2	88.95	79.95
2109350	BS2PX24	24-pin	32MHz (turbo)	16 + 2	78.95	69.95
159775	BS2SX-IC	24-pin	50MHz (turbo)	16 + 2	58.95	52.95

See page 182 for Parallax Boards & Kits

## Tiny Logic® Series

Order in multiples of 10

Part No.	Mfr. Part No.	Pkg.	Description	10	100
873830	NC7SU04M5X	SOT-23/5	Single unbuffered inverter	\$0.07	\$0.05
873725	NC7S08P5X	SC-70/5	Single 2-input AND gate	.09	.05
874138	NC7SZ125M5X	SOT-23/5	Buffer w/ 3-st. output	.09	.05

## Interface Series

\*Web Code: RBU

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10
832448	♦	DS26LS32ACM/NOPB	SOIC-16	Quad differential line receiver	\$0.59	\$0.45
1291647	MCH	TC4420CPA	DIP-8	6A high speed MOSFET driver	1.39	1.15
313437	♦	ICM7218AIJ	DIP-28	5V, 8 digit LCD driver	6.95	6.25
312160	MAX	MAX7219CNG	DIP-24	5V, 8 digit LCD driver	7.95	6.95
313322	♦	ICM7228AIP	DIP-28	5V, 8 digit LCD driver	7.95	7.49
241875	♦	FAN8082	DIP-8	18V, bi-directional DC motor driver	.69	.59
50884	♦	SN75154N	DIP-16	5-12V, quad line receiver	.35	.25
277940	♦	SN75179BP	DIP-8	5V, diff line driver/receiver	1.29	1.09
277974	♦	SN75183N	DIP-14	5V, dual diff line driver	2.25	1.95
51027	♦	SN75451AN	DIP-8	7V, dual peripheral AND driver	.79	.69
51131	♦	SN75492P	DIP-14	5V, HEX digit driver	4.95	4.49

\* Ethernet Controllers Available Online — Enter Web Code LAE

\* Interface Controllers Available Online — Enter Web Code HAS



## Digital Interface

\*Web Code: WBB

Part No.	Mfr. Part No.	Pkg.	Description	1	10	50
171951	EDE702	DIP-18	Serial LCD interface	\$7.19	\$6.75	\$6.25
171969	EDE1144	DIP-18	Keypad encoder	5.19	4.95	4.75
141532	EDE1200	DIP-18	Unipolar stepper motor controller	6.39	6.15	5.95
157526	EDE1204	DIP-18	Bipolar stepper motor controller	6.39	6.15	5.95
321736	EDE2008	DIP-18	Pushbutton debouncer w/ 8-independent chan	4.19	3.95	3.75
321761	EDE2208/P	DIP-18	8-pushbutton momentary to toggle	4.19	3.95	3.75

# Encoders/Decoders, Drivers/Receivers, Comparators & Audio Amps

## Motor/Display Drivers

★ Web Code: DAD

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
25216	ON	MC3479P	DIP-16	7.2-16.5V, stepper motor driver ..	\$6.95	\$6.25	\$5.75
1762681	ALL	UDN2981A-T	DIP-18	8-channel source driver .....	1.79	1.59	1.39
24230	NSC	LM3914N	DIP-18	25V, dot/bar display driver .....	2.75	2.49	2.25
300003	NSC	LM3914N-1	DIP-18	25V, dot/bar display driver .....	2.25	1.85	1.59
901010	NSC	LM3914N-1/NOPB	DIP-18	25V, dot/bar display driver .....	2.35	1.95	1.69
24256	NSC	LM3915N	DIP-18	25V, dot/bar display driver .....	2.95	2.75	2.49
901061	NSC	LM3915N-1	DIP-18	3dB/step, 30db range dot/bar disp. dvr	3.09	2.49	1.95
24272	NSC	LM3916N	DIP-18	3-25V, dot/bar display driver .....	2.75	2.49	2.25
2126299	HIT	HA13426	SP-23TA	3 phase motor driver .....	2.95	2.49	1.95
241824	MOT	MC14489BP	DIP-20	5V, 7-segment LED display driver ..	4.75	4.25	3.49
2129959	TI	SN65512CN	DIP-20	Dot/vacuum fluorescent display driver	1.49	1.35	1.19

## Stepper Motor Drivers/Controllers

★ Web Code: GDP

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
924545	ST	L293DD	SOIC-20	Push pull 4-ch driver w/ diodes .....	\$1.95	\$1.75	\$1.49
288067	ST	L297/1	DIP-20	Stepper motor controller, 5V .....	9.95	8.95	7.95
245403	ST	L298N	MW-15	Dual full-bridge driver, 46V .....	2.75	2.49	2.35
288091	ST	L6202	DIP-18	DMOS full-bridge driver, 48V .....	5.95	5.49	4.95
288104	ST	L6203	MW-11	DMOS full-bridge driver, 48V .....	7.49	6.95	6.25
1695596	INF	ICE2AS01	PDI8	Current mode PWM controller .....	1.19	1.09	.89

★ Motion Control Available Online — Enter Web Code DEU

## Encoders/Decoders

★ Web Code: VAR

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
243408	+	TP3054N	DIP-16	U-law PCM CODEC & filter, 5V .....	\$1.95	\$1.49	\$1.25
296702	MOT	MC145026P	DIP-16	Encoder, 4.5-18V .....	2.49	2.25	2.05
296711	MOT	MC145027P	DIP-16	Decoder, 4.5-18V .....	2.95	2.75	2.49
123730	HOL	HT12E	DIP-18	Encoder, 2.4-12V .....	1.75	1.55	1.35
123748	HOL	HT12D	DIP-18	Decoder, 2.4-12V .....	1.65	1.45	1.25
243483	MCH	HCS512-I/P	DIP-18	Code hopping decoder, 4-6V .....	4.95	4.25	3.95
287945	MCH	MCP2140-I/P	DIP-18	Standard protocol stack controller, 3-5V ...	1.95	1.75	1.25
287970	MCH	MCP2150-I/SO	SOIC-18	Standard protocol stack controller, 3-5V ...	3.95	2.95	2.75
243459	MCH	MCP2150-I/P	DIP-18	Standard protocol stack controller, 3-5V ...	2.95	2.75	2.49

## Buffer

★ Web Code: WBR

Part No.	Product No.	Pkg.	Description	1	10	100
23051	LH0002CN	DIP-10	General purpose buffer .....	\$12.95	\$11.95	\$10.95

## RS-232 Drivers/Receivers

★ Web Code: EAV

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
142535	+	MAX202CPE	DIP-16	5V, 120kbps, w/ 0.1µF ext. caps ...	\$2.95	\$2.25	\$1.59
244232	+	MAX202CSE	SOIC-16	5V, 120kbps, w/ 0.1µF ext. caps .....	2.25	1.95	1.75
282790	MAX	MAX211CAI	SSOP-28	5V, w/ 0.1µF ext. caps. ....	2.95	2.75	2.49
24811	+	MAX232CPE*	DIP-16	5V, 200kbps, multichannel .....	1.85	1.65	1.25
24812	+	MAX232CPE	DIP-16	5V, 200kbps, multichannel .....	1.95	1.75	1.35
318959	MAX	MAX232CPE	DIP-16	5V, 200kbps, multichannel .....	2.49	2.09	1.59
106147	+	MAX232CWE	SOIC-16	5V, 120kbps, multichannel .....	2.49	2.15	1.95
256401	+	MAX232DR	SOIC-16	5V, 120kbps, dual driver/rcvr .....	.75	.65	.55
698576	TI	MAX232N	DIP-16	Dual EIA-232 driver/receiver, C-temp ..	.79	.69	.59
903277	TI	MAX232IN	DIP-16	Dual EIA-232 driver/receiver, I-temp ...	.75	.65	.55
106163	+	MAX233CPG	DIP-20	5V, 120kbps, multichannel .....	5.95	5.49	4.75
106171	+	MAX235CPP	DIP-24	5V, 120kbps, multichannel .....	10.95	9.95	7.95
106180	+	MAX238CNG	DIP-24	5V, 120kbps, multichannel .....	5.95	4.95	3.75
23157	+	DS1488N*	DIP-14	15V, quad line driver .....	.35	.29	.25
16379	+	DS14C89N	DIP-14	5V, quad line receiver .....	1.19	1.09	.95
235301	+	DS14C232CN	DIP-16	5V, LP, TIA/EIA dual driver/rcvr .....	1.95	1.49	1.19
23181	+	SN75189N*	DIP-14	5V, quad line receiver .....	.35	.29	.25
25099	+	MC145406P	DIP-16	5-12V, EIA-232-D/V.28 driver/rcvr ..	2.49	2.25	1.95
929207	ON	MC100EP17DWG	SOIC-20	Quad differential driver/receiver	13.95	12.95	10.95

\* 10 pcs. in Linear series IC cabinet kit, pg 15

## RS-422/423/485 Drivers/Receivers

★ Web Code: NBT

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
299807	+	LTC485CN8	DIP-8	RS-485 LP xcvr, 5V .....	\$2.25	\$1.59	\$1.49
244195	+	MAX1487CPA	DIP-8	RS-485/422 LP xcvr, 12V .....	2.25	1.75	1.55
39571	+	26LS30	DIP-16	RS-422/423 line driver, 5V .....	2.49	2.25	1.95
39600	+	26LS32	DIP-16	RS-422/423 quad diff. line rcvr, 5V .....	.79	.69	.59
50948	+	SN75174N	DIP-16	RS-422 quad diff. line driver w/ 3 st. ....	.89	.79	.69
50956	+	SN75175N	DIP-16	RS-422/423 quad diff. line rcvr, 5V .....	.89	.79	.69
758364	TI	SN75176AP	DIP-8	RS-422 differential bus xcvr .....	.65	.55	.45
50964	+	SN75176BN	DIP-8	RS-422 diff. line bus xcvr, 5V .....	.69	.59	.45

## Power Management

★ Web Code: PMT

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10
312848	TI	BQ2004PN	DIP-16	NiMH/NiCd switchmode chrg mgmt w/ neg dV	\$2.95	\$2.49
312928	TI	BQ2018TS-E	TSSOP-8	Rechargeable battery power monitor .....	2.95	2.75
312936	TI	BQ2019PW	TSSOP-8	Rechargeable battery power monitor .....	2.95	2.75
312881	TI	BQ2040SN-D111	SOIC-16	Li-Ion/NiMH/NiCd gas gauge w/ smbus .....	4.95	4.49

## Comparators

★ Web Code: EBS

\* Order in multiples of 10

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
311044	NSC	LM111J-8	DIP-8	Voltage comparator .....	\$7.95	\$6.95	\$6.25
282087	+	LM139J	CDIP-14	Low power, low offset volt quad .....	1.75	1.55	1.35
23528	+	LM311N*	DIP-8	Voltage comparator .....	.29	.25	.19
902522	TI	LM311DR	SOIC-8	Differential comparator w/ strobes .....	*	.12	.09
143888	+	LM339AN	DIP-14	Low power quad comparator .....	.29	.25	.19
826742	TI	LM339N	DIP-14	Quad differential comparator .....	.35	.29	.25
23851	+	LM339N*	DIP-14	Quad comparator .....	.25	.22	.17
120900	+	LM392N	DIP-8	Low power op amp./volt comp. ....	1.09	.99	.89
24281	+	LM393N*	DIP-8	Dual comparator .....	.25	.22	.17
212177	+	LM393AN	DIP-8	Low power low offset volt quad comp. ...	*	.19	.15
297844	MAX	MAX902CSD	SOIC-14	Hi-speed low power precision volt comp. ...	5.95	5.25	4.95
312266	LTC	LT1016CS8	SOIC-8	Ultra-fast precision 10ns comparator ..	1.95	1.75	1.39
107238	+	LM3302N	DIP-14	Low power low offset volt quad .....	*	.15	.12
1944741	ST	TS3721IN	DIP-8	LP dual CMOS volt (I-temp) .....	*	.09	.05
277173	NSC	LMC7211AIM	SOIC-8	Comp w/ rail-to-rail input, push pull output	.75	.65	.55
277190	NSC	LMC7211BIM	SOIC-8	Comp w/ rail-to-rail input, push pull output	.75	.65	.55

\* 10 pcs./ \* 20 pcs. included in Linear kit, pg 15

## Audio Amps

★ Web Code: MBP

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10	100
243678	ADI	OP275GP	DIP-8	Dual JFET audio op amplifier .....	\$2.25	\$1.85	\$1.49
24037	NSC	LM380N	DIP-14	2-watt, power amplifier .....	1.39	1.15	.89
24088	NSC	LM383T	TO-220/5	7-watt, high power .....	5.95	5.49	4.95
24096	NSC	LM384N	DIP-14	5-watt audio amplifier .....	1.65	1.45	1.05
193623	NSC	LM386M-1	SOIC-8	Low volt audio power amp. ....	.49	.45	.35
24125	NSC	LM386N-1*	DIP-8	Low voltage, 250mW/6V .....	.89	.75	.55
24126	NSC	LM386N-1	DIP-8	Low voltage, 250mW/6V .....	.95	.79	.59
839826	NSC	LM386N-1/NOPB	DIP-8	Low voltage audio power amp. ....	.99	.85	.65
24133	NSC	LM386N-3*	DIP-8	Low voltage, 500mW/9V .....	.79	.65	.55
24483	NSC	LM725CN	DIP-8	Instrumentation op amplifier .....	1.25	.95	.79
295718	NSC	LM1203N	DIP-28	RGB video amplifier .....	5.95	5.49	4.95
24942	ON	MC1350P	DIP-8	Video IF amp. (12V operation) .....	2.95	2.75	2.49
23270	NSC	LM1875T	TO-220/5	20-watt audio power amp. ....	2.95	2.49	2.15
835753	NSC	LM1875T/LB03	TO-220/5	20W audio pwr amp. (staggered leads)	3.25	2.95	2.75
23288	NSC	LM1877N-9	DIP-14	Dual power audio amplifier .....	2.95	2.49	2.25
107140	NSC	LM1881N	DIP-8	Video synchronous separator .....	2.59	2.09	1.75
32897	ST	TDA2002V	TO-220/5	8-watt audio high power amp. ....	4.95	4.49	3.95
315344	ST	TDA2040V	PWAT-5	20-watt hi-fi power .....	2.25	1.95	1.75
275830	TI	OPA2134PA	DIP-8	High performance audio op amp. ....	2.95	2.49	2.25
312063	ADI	SSM2141P	DIP-8	Hi common-mode rejection diff. line rec	2.49	1.95	1.49
320670	NSC	LM3886TF	TO-220/11	68-watt high-perf., isol. pkg. ....	5.95	4.95	4.25
192516	NSC	LM3886T	TO-220/11	68-watt high-performance .....	5.95	4.95	4.25
302201	NSC	LM4752T	TO-220/7	Stereo 11-watt audio power amp. ....	2.95	2.75	2.49
316873	MOT	MC34119D	SOIC-8	LP audio amp. (500mW, 16VDC)	1.19	1.09	.89
316865	MOT	MC34119P	DIP-8	LP audio amp. (500mW, 16VDC)	2.25	2.05	1.85

\* 10 pieces included in Linear kit, pg 15

\* ALL = Allegro | HIT = Hitachi | MAX = Maxim Semi | MCH = Microchip | MOT = Motorola | NSC = National Semi | ON = ON Semi | + Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.





## ANALOG DEVICES Amplifiers

★ Web Code: ANA

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
1805943	ADXL213AE	LCC-8	5V, low cost $\pm 2g$ dual-axis accelerometer	\$16.95	\$15.95	\$14.95
1780862	AD620ANZ	DIP-8	Low cost, LP instrumentation amp	6.75	5.49	4.75
1781136	AD627AR	SOIC-8	Low cost, instrumentation amp	4.95	3.95	3.49
311132	AD811AN	DIP-8	High performance, video op amp	7.49	6.25	5.75

## Instrumentation Amplifier

★ Web Code: NDA

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
825934	INA126PA	DIP-8	$\mu$ Power instrumentation amp	\$2.75	\$2.49	\$2.25

## A/D & D/A Converters

★ Web Code: QAG

Part No.	*Mfr. Product No.	Pkg.	Description	1	10	100
277149	MAX MAX110ACWE	SOIC-16	A/D, 14-bit, 5V, 50sps, 2-ch	\$8.95	\$7.95	\$6.95
277131	MAX MAX110BCPE	DIP-16	A/D, 14-bit, 5V, 50sps, 2-ch	9.95	8.49	8.25
277122	MAX MAX110BCWE	SOIC-16	A/D, 14-bit, 5V, 50sps, 2-ch	6.95	5.95	4.95
277069	MAX MAX197BCNI	DIP-28	A/D, 12-bit, 5V, 10Ksps, 8-ch	15.95	13.95	11.95
289545	TI TLC540IDW	SOIC-20	A/D, 8-bit, 5V, 75Ksps	2.95	2.49	2.25
289553	TI TLC540IFN	PLCC-20	A/D, 8-bit, 5V, 75Ksps	2.95	2.49	2.25
289596	TI TLC541IDW	SOIC-20	A/D, 8-bit, 5V, 40Ksps	2.49	1.95	1.75
289705	TI TLC542IFN	PLCC-20	A/D, 8-bit, 5V, 25Ksps	1.75	1.49	1.25
289713	TI TLC545CN	DIP-28	A/D, 8-bit, 5V, 76Ksps	4.25	3.75	3.25
10145	NSC ADC0803LCN	DIP-20	A/D, 8-bit, 5V, 9.1Ksps, 1-ch	3.95	3.25	2.95
10153	NSC ADC0804LCN	DIP-20	A/D, 8-bit, 5V, 9.1Ksps, 1-ch	3.19	2.59	2.19
828342	NSC ADC0804LCN/NOB	DIP-20	A/D, 8-bit $\mu$ P compatible ( $\pm 1$ LSB)	3.25	2.65	2.25
10170	NSC ADC0808CCN	DIP-28	A/D, 8-bit, 5V, 9.1Ksps, 8-ch	4.95	4.49	3.75
10188	NSC ADC0809CCN	DIP-28	A/D, 8-bit, 5V, 9.1Ksps, 8-ch	2.59	2.39	2.25
831031	NSC ADC0816CCN	DIP-40	A/D, 8-bit, $\mu$ P comp. ADC w/ 16-ch	9.95	8.95	7.95
10209	NSC ADC0817CCN	DIP-40	A/D, 8-bit, 5V, 9.1Ksps, 16-ch	4.95	3.95	3.49
10225	NSC ADC0820CCN	DIP-20	A/D, 8-bit, 5V, 1.5 $\mu$ s	3.49	3.15	2.49
116100	NSC ADC0831CCN	DIP-8	A/D, 8-bit, 5V, 32 $\mu$ s	2.49	2.09	1.75
1252488	NSC ADC08380CN/NOB	DIP-20	A/D, 8-bit serial, 5V, 32 $\mu$ s	2.75	2.25	1.75
290538	TI TLC0832CD	SOIC-8	A/D, 8-bit, 3V, 32 $\mu$ s	2.25	1.95	1.75
288681	TI THS1030IDW	SOIC-28	A/D, 10-bit, 5V, 26 $\mu$ s, 30Msps	5.95	4.95	4.49
288729	TI THS1031IPW	TSSOP-28	A/D, 10-bit, 3-5.5V, 30Msps	5.49	4.95	4.25
1748897	LTC LTC1403AIMSE	MSOP-10	A/D, 14-bit, 2.8Msps samp ADC	11.95	10.95	9.95
289001	TI TLC1541CDW	SOP-20	A/D, 10-bit, 5V, 32Ksps	4.95	4.25	3.95
289019	TI TLC1541CN	DIP-20	A/D, 10-bit, 5V, 32Ksps	4.75	4.25	3.75
289078	TI TLC1542CDW	SOP-20	A/D, 10-bit, 5V, 26 $\mu$ s, 11-ch	2.95	2.49	1.95
289271	TI TLC1543QDB	SSOP-20	A/D, 10-bit, 6.5V, 5V, 26 $\mu$ s, 11-ch	3.49	2.95	2.75
289300	TI TLC1543ODW	SOIC-20	A/D, 10-bit, 6.5V, 5V, 26 $\mu$ s, 11-ch	2.95	2.59	2.25
288593	TI PCM1800E	SSOP-24	A/D, 20-bit, 5V, 32-48KHz, 2-ch	3.49	3.25	2.95
288622	TI PCM1801U	SOIC-14	A/D, 20-bit, 5V, 32-48KHz, 2-ch	3.95	3.49	3.25
290634	TI TLV2543CDW	SOIC-20	A/D, 12-bit, 3.3V, 10 $\mu$ s, 11-ch	5.95	5.49	4.95
288016	MCH MCP3302-CI/SL	SOIC-14	A/D, 13-bit, 2.7-5.5V, 50-100Ksps, 2-ch	2.95	2.49	2.25
288024	MCH MCP3302-CI/ST	TSSOP-14	A/D, 13-bit, 2.7-5.5V, 50-100Ksps, 2-ch	2.49	2.35	2.15
43748	◆ 7106CPL	DIP-40	A/D, 3 1/2-digit LCD/LED, 9V	1.49	1.25	.95
43756	◆ 7107CPL	DIP-40	A/D, 3 1/2-digit LCD/LED, $\pm 5V$	2.49	2.25	1.95
875683	INS ICL7107CPL	DIP-40	A/D, 3 1/2-digit LCD/LED, 6V	2.95	2.65	2.35
115158	ADI AD558JN	DIP-16	D/A, 8-bit, 5-15V, 1-5-3 $\mu$ s, 1-ch	11.95	10.95	9.95
1944581	SAM KDA0408	DIP-42	D/A, 8-bit, 5V, 60Msps, triple	.49	.39	.35
14904	NSC DAC0800LCN	DIP-16	D/A, 8-bit, 4.5-18V, 150ns	1.55	1.25	.95
14947	NSC DAC0808LCN	DIP-16	D/A, 8-bit, 4.5-18V, 150ns	1.75	1.49	1.19
14963	NSC DAC0830LCN	DIP-20	D/A, 8-bit, 5-15V, 1 $\mu$ s	5.25	4.49	3.75
128186	NSC DAC0832LCN	DIP-20	D/A, 8-bit, 5-15V, 1 $\mu$ s	3.49	2.75	2.49
290781	TI TLV5604ID	SOIC-16	D/A, 10-bit, 2.7-5.5V, 20MHz, 4-ch	5.25	4.75	4.49
290790	TI TLV5604IPW	TSSOP-16	D/A, 10-bit, 2.7-5.5V, 20MHz, 4-ch	4.95	4.49	3.95
290853	TI TLV5613IPW	TSSOP-20	D/A, 12-bit, 2.7-5.5V, 3-7 $\mu$ s, 1-ch	3.75	3.49	2.95
290933	TI TLV5614CPW	TSSOP-16	D/A, 12-bit, 2.7-5.5V, 5.5-2.0 $\mu$ s, 4-ch	9.95	8.95	7.95
1783887	ADI AD7398BRU2	TSSOP-16	D/A, 12-bit, quad serial In	12.95	12.25	10.95
290052	TI TLC7524CN	DIP-16	D/A, 8-bit, 5-15V, 100ns	2.75	2.49	2.05
287380	ADI AD9760AR	SOIC-28	D/A, 10-bit, 3-5V, 125Msps	3.95	2.95	2.49

## Op Amps

★ Web Code: WAD

\* Order in multiples of 10

Part No.	*Mfr. Product No.	Pkg.	Description	1	10	100
27852	◆ OP07CP	DIP-8	Ultra-low offset voltage	\$ .89	\$ .79	\$ .69
252988	◆ OP07DP	DIP-8	Very low offset single bipolar	.69	.59	.49
23106	◆ LM10CLN	DIP-8	Low voltage (1.1 volt)	2.95	2.75	2.25
120715	◆ LM10CN	DIP-8	Op amp and voltage reference	1.95	1.49	1.25
1062114	TI TL026CP	DIP-8	Diff. high-freq. amp. w/ AGC	*.09	*.09	*.07
1807439	ADI OP27AZ/883C	DIP-8	Low noise precision op amp	27.95	25.95	23.95
275805	TI OPA27GP	DIP-8	Ultra-low noise precision	2.19	2.09	1.95
275784	TI OPA27GU	SOIC-8	Ultra-low noise precision	1.95	1.59	1.25
115300	◆ OP27EP	DIP-8	Low noise precision op amp	3.95	3.49	3.25
115318	◆ OP27GP	DIP-8	Low noise precision (-40° to 80°C)	2.49	1.95	1.59
1944812	ST TL27L2IN	DIP-8	Prec. very low power CMOS dual	.79	.69	.59
821676	TI TL051IP	DIP-8	Enhanced JFET low offset	*.09	*.09	*.07
213129	◆ TL052ACP	DIP-8	Enh. JFET low offset op amp	1.25	.95	.85
33161	◆ TL062CP	DIP-8	Low power JFET op amp	.59	.49	.45
33187	◆ TL071CP	DIP-8	Low noise JFET op amp	.29	.25	.22
213073	◆ TL072ACP	DIP-8	Low noise JFET input op amp	.49	.39	.29
33195	◆ TL072CP*	DIP-8	Low noise JFET dual op amp	.25	.22	.19
33216	◆ TL074CN*	DIP-14	Low noise JFET quad op amp	.45	.39	.35
278328	TI TL074CN	DIP-14	Wide-band, high-output drive	1.75	1.49	1.15
213057	◆ TL081ACP	DIP-8	JFET input, low offset w/ control	.69	.59	.49
33232	◆ TL081CP	DIP-8	JFET input, offset control	.35	.29	.25
214076	◆ TL082ACP	DIP-8	JFET input, low offset	.79	.69	.49
33241	◆ TL082CP*	DIP-8	JFET input dual op amplifier	.39	.35	.29
760034	TI TL082CDR	SOIC-8	JFET input op amplifier	*.15	.15	.12
214084	◆ TL084ACN	DIP-14	JFET input op amplifier	.45	.39	.35
193535	◆ TL084CD	SOIC-14	JFET input quad op amplifier	.39	.35	.29
33267	◆ TL084CN*	DIP-14	JFET input quad op amplifier	.29	.25	.22
143917	TI TLC272CP	DIP-8	LinCMOS precision dual op amp	.75	.65	.55
242000	◆ TLC274ACN	DIP-14	Quad precision op amp, low offset	.59	.49	.45
245665	◆ LM301AH	TO-5/8	Operational amplifier	3.95	3.49	3.25
212151	◆ LM301AN*	DIP-8	Operational amplifier	.39	.35	.29
245673	◆ LM308AH	TO-5/8	Precision op amplifier	4.95	4.49	3.95
23464	◆ LM308N*	DIP-8	Precision op amplifier	6.95	6.25	5.49
23608	NSC LM318N	DIP-8	Precision high speed	.89	.79	.69
212169	◆ LM324AN	DIP-14	Low power quad, impr. offset	.35	.29	.25
86721	◆ LM324D	SOIC-14	Low power quad op amplifier	.29	.22	.19
23683	◆ LM324N**	DIP-14	Low power quad op amplifier	.29	.25	.22
826671	TI LM324NE4	DIP-14	Quad op amplifier	.35	.29	.25
22904	◆ LF347N	DIP-14	Quad JFET input (wide band)	.55	.45	.39
23915	◆ LM348N	DIP-14	Quad 741 op amp (UPC4741C)	.35	.29	.25
22912	◆ LF351N	DIP-8	BIFET op amplifier	.45	.39	.35
22939	◆ LF353N*	DIP-8	Dual BIFET (comp w/ TL082CP)	.39	.35	.29
22971	NSC LF356N*	DIP-8	JFET input (wide band)	.99	.85	.65
833889	NSC LF356N/NOB	DIP-8	JFET input (wide band)	1.05	.89	.69
22998	◆ LF357N	DIP-8	JFET input (wide band)	2.95	2.75	2.49
120862	◆ LM358AN	DIP-8	Low power dual (improved 358N)	.25	.22	.19
839332	NSC LM358AN/NOB	DIP-8	Low power dual op amplifier	.69	.59	.49
23966	◆ LM358N*	DIP-8	Low power dual op amplifier	.29	.25	.22
23018	◆ LF411CN*	DIP-8	Low offset drift JFET input	1.25	1.09	.89
835500	NSC LF411CN/NOB	DIP-8	Low-offset, low-drift JFET input	1.29	1.15	.95
23026	◆ LF412CN*	DIP-8	Low offset drift JFET input dual	1.09	.99	.89
106681	◆ LF442CN	DIP-8	Dual low power JFET input	1.25	1.05	.85
119992	◆ LF444CN	DIP-14	Quad low power JFET input	1.75	1.49	1.05
276613	MAX MAX474CSA	SOIC-8	Dual 10MHz single supply op amp	3.95	2.95	2.49
311239	MCH MCP6S21-I/P	DIP-8	1-ch PGA low-gain sgld-ended rail-to-rail I/O	1.49	1.15	.95
311255	MCH MCP6S22-I/P	DIP-8	2-ch PGA low-gain sgld-ended rail-to-rail I/O	1.59	1.39	1.19
313314	ADI AD626AR	SOIC-8	Low-cost sgld supply diff amplifier	3.95	3.49	3.25
311221	MCH MCP6S28-I/P	DIP-8	8-ch prog. low-gain sgld-ended rail-to-rail I/O	2.49	2.25	1.95
143976	◆ LMC660CN	DIP-14	CMOS quad operational amplifier	1.75	1.45	1.25

\*10 pcs./\*\*20 pcs. included in Linear cabinet kit, pg 15

Op Amps continued on next page

\* ADI = Analog Devices | INS = Intersil | LTC = Linear Tech | MAX = Maxim | MCH = Microchip | NSC = National Semi | SAM = Samsung | ST = ST Micro | TI = Texas Instruments | ◆ Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

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## Op Amps (Continued)

\*Web Code: WAD

\* Order in multiples of 10

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10	100
120926	+	LM675T	TO-220/5	Power op amplifier	\$5.25	\$4.25	\$3.49
24491	+	LM733CN	DIP-14	Differential amplifier	.89	.79	.69
24521	+	LM741CH	TO-5/8	Op amplifier	4.95	4.49	3.95
24539	+	LM741CN*	DIP-8	Op amplifier	.29	.25	.22
24540	+	LM741CN	DIP-8	Op amplifier	.29	.25	.22
840763	NSC	LM741CN/NOPB	DIP-8	General purpose op amplifier	.79	.59	.45
830522	TI	UA741CP	DIP-8	General purpose op amplifier	.29	.25	.22
24563	+	LM747CN	DIP-14	Dual 741 op amplifier	.79	.69	.59
239222	+	LTC1001CN8	DIP-8	Precision op amplifier	2.75	2.49	2.09
239169	+	LT1013CP	DIP-8	Dual precision op amplifier	1.15	.95	.79
239177	+	LT1014DN	DIP-14	Quad precision op amplifier	3.95	3.59	2.75
1745688	LTC	LTC1050CN8	DIP-8	Precision zero-drift op amp w/ internal cap	4.95	4.49	4.25
23131	+	LM1458N*	DIP-8	Dual op amplifier	.35	.29	.25
903509	TI	MC1458B	DIP-8	Dual general purpose op amplifier	.39	.29	.25
823525	TI	TLC2272AIP	DIP-8	Advanced LinCMOS* rail-to-rail	1.09	.99	.89
1085819	TI	TLC2272CP	DIP-8	Advanced LinCMOS* rail-to-rail	1.29	1.19	1.09
1944839	+	TLV2772CP	DIP-8	Hi slew rate r-r output, w/ shutdown	.99	.89	.79
121005	+	LM2904N	DIP-8	Low power dual op amplifier	.95	.12	.09
12116	+	CA3080E	DIP-8	Op transconductance amplifier	3.95	3.75	3.49
12183	+	CA3130E	DIP-8	CMOS op amplifier	1.19	1.09	.89
12204	+	CA3140E	DIP-8	Bi-MOS op amplifier	1.29	1.19	1.09
212193	+	MC3403N	DIP-14	Quad bipolar op amplifier	.39	.35	.29
24168	+	LM3900N	DIP-8	Quad amplifier	.49	.45	.35
278176	TI	THS4082CD	SOIC-8	175MHz LP hi-speed amplifier	3.95	3.59	3.25
29356	+	RC4136N	DIP-14	Quad op amp. (XR4136)	.99	.89	.79
251125	+	MC4558CN	DIP-8	Wide bandwidth dual bipolar	.29	.25	.22
908246	TI	RC4558DR	SOIC-8	Dual general purpose op amplifier	*	.12	.09
27385	+	NE5532*	DIP-8	Dual low noise op amplifier	.29	.25	.22
252970	+	NE5532AP	DIP-8	Dual lower noise op amplifier	.65	.55	.45
27406	+	NE5534	DIP-8	Low noise op amplifier	.65	.55	.45
302076	NSC	LM6134BIN	DIP-14	Quad LP r-r in/out, 10MHz	3.49	2.95	2.65
302068	NSC	LM6142AIM	SOIC-8	Dual r-r in/out, 17MHz	2.95	2.75	2.25
301874	NSC	LM6181IN	DIP-8	100mA, 100MHz current feedback	2.95	2.49	1.95
301436	NSC	LMC6442IM	SOIC-8	Dual upwr r-r output single supply	1.25	.95	.75
126906	NSC	LMC6462AIN	DIP-8	upwr r-r I/O CMOS op amp., lower VOS	1.95	1.59	1.35
301356	NSC	LMC6484AIN	DIP-14	CMOS quad r-r I/O, lower VOS	4.25	3.25	2.69
301751	NSC	LM7171BIM	SOIC-8	Hi speed hi output current volt feedback	1.95	1.49	1.25
804682	MAX	ICL7621DCSA	SOIC-8	Dual low power op amplifier	1.75	1.25	1.05
1789816	ADI	AD8022ARMZ	MSOP-8	Dual hi speed low noise	2.95	2.75	2.25
192532	NSC	LM13700N	DIP-16	Dual op transcon. w/ diodes/buffer	2.19	1.75	1.45
192533	NSC	LM13700N	DIP-16	Dual op transcon. w/ diodes/buffer	2.25	1.85	1.55
1944775	ON	MC33174VP	DIP-14	Single supply 3V-44V op amplifier	*	.09	.07
871586	ON	MC33204P	DIP-14	Low voltage, rail-to-rail	.79	.59	.35
251061	ON	MC34072P	DIP-8	Single supply 3V-44V op amplifier	.79	.69	.59

\*10 pcs./ \*\*20 pcs. in Linear cabinet kit, pg 15

## Linear Series

\*Web Code: FAD

\* Order in multiples of 10

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10	100
25751	+	MF10CCN	DIP-20	Gen. purpose dual active filter	\$4.49	\$3.59	\$2.95
16301	+	DS0026CN	DIP-8	Dual MOS clk. driver (5MHz)	5.95	5.49	4.95
239281	+	DG201BDJ	DIP-16	Quad analog switch	1.29	1.19	1.09
1341966	TI	L293DNE	DIP-16	Quad half-H drivers, I-temp	2.95	2.49	1.95
1342011	TI	L293NE	DIP-16	Quad half-H drivers, C-temp	2.39	2.15	1.59
1950876	CAL	CWB309	DIP-16	Quad mono CMOS/DMOS analog switch	*	.09	.07
23721	+	LM331N	DIP-8	Prec volt to freq convtr (150ppm/°C)	2.25	1.75	1.39
245446	MAX	MAX301CPE	DIP-16	Precision dual hi speed analog switch	2.25	1.75	1.49
23739	NSC	LM334Z	TO-92/3	Adjust current source	.79	.65	.49
23771	NSC	LM336Z-2.5	TO-92/3	Voltage reference (2.5V)	.39	.35	.29
297676	NSC	LM336BZ-5.0	TO-92/3	5V voltage reference diode	1.29	1.09	.89
120889	+	LM385BZ-2.5	TO-92/3	Volt. reference diode (2.5V ±1.5%)	.29	.25	.19
24117	+	LM385Z-1.2	TO-92/3	Micropwr volt. ref. diode (1.2V)	.49	.39	.29
23000	+	LF398N	DIP-8	Sample and hold circuit	1.49	1.19	.89

\* ADI = Analog Devices | CAL = CALogic | LTC = Linear Tech | MAX = Maxim Semi | NSC = National Semi | ON = ON Semi | ST = ST Micro | TI = Texas Instruments | + Manufacturer Varies

## Linear Series (Continued)

\*Web Code: FAD

\* Order in multiples of 10

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10	100
309833	+	DG403DJ	DIP-16	Dual SPDT & SPDT analog switch	\$2.75	\$2.49	\$2.25
272161	+	DG407DJ	DIP-28	Dual 8-ch multiplexer/demux	5.49	4.95	4.49
256532	+	DG408DJ	DIP-16	1 of 8 multiplexer/demultiplexer	1.95	1.75	1.49
288243	ADI	ADG409BN	DIP-16	Dual 4-ch multiplexer/demux	2.95	2.75	2.25
243643	+	DG411DJ	DIP-16	Quad SPST (NC) analog switch	.89	.79	.59
256516	+	DG412DJ	DIP-16	Quad SPST (NO) analog switch	.79	.69	.49
279540	+	DG419DJ	DIP-8	Dual SPST (NO/NC) analog switch	1.75	1.55	1.45
33347	+	TL431CLP	TO-92/3	Program precision reference	*	.15	.12
1798261	ADI	ADG451BRZ	SOIC-16	Analog switch	2.49	2.25	1.95
33355	+	TL494CN	DIP-16	Contrl circuit pulse-width-modulated	.39	.29	.25
86799	+	LM555CM	SOIC-8	Timer	.29	.25	.22
840579	NSC	LM555CM/NOPB	SOIC-8	Timer	.49	.39	.29
27422	+	LM555CN*	DIP-8	Timer (MC1455P/NE555V)	.25	.22	.17
27423	+	LM555CN	DIP-8	Timer (MC1455P/NE555V)	.29	.25	.19
840608	NSC	LM555CN/NOPB	DIP-8	Timer	1.25	1.05	.85
126797	+	LMC555CN	DIP-8	CMOS timer	.69	.59	.45
841571	NSC	LMC555CN/NOPB	DIP-8	CMOS timer	1.49	1.25	.95
890091	ST	NE555N	DIP-8	Gen. purp. single bipolar timer	.29	.25	.22
904085	TI	NE555P	DIP-8	Precision timer	.39	.35	.25
761272	TI	TLC555CP	DIP-8	LinCMOS™ timer, C-temp	.65	.55	.49
24328	+	LM556N*	DIP-14	Dual 555 timer	.29	.25	.22
24329	+	LM556N	DIP-14	Dual 555 timer	.35	.29	.25
904114	TI	NE556N	DIP-14	Dual precision timer	.49	.45	.39
27473	ST	NE564N	DIP-16	High freq. phase locked loop	2.75	2.49	2.25
24352	+	LM565N	DIP-14	Phased locked loop	2.95	2.75	2.49
24395	+	LM567CN	DIP-8	Tone decoder	1.39	1.09	.95
27490	ST	NE571N	DIP-16	Compander, subscriber	4.49	4.25	3.95
288155	ADI	AD584KN	DIP-8	Prog volt. ref. 11mV tol.	6.95	5.95	4.95
918436	INS	SA612AD/01	SOIC-8	Double balanced mixer & oscillator	1.95	1.49	1.25
115174	ADI	AD620AN	DIP-14	Low-cost instrument amp.	6.49	5.25	4.49
1798982	ADI	ADG623BRMZ	SOIC-10	Analog switch	1.25	.95	.75
1781312	ADI	AD633ANZR	DIP-8	Analog multiplier	4.95	3.95	3.25
115182	ADI	AD633JN	DIP-8	Low-cost analog multiplier	6.95	6.25	5.75
239265	+	LT1004CZ-2.5	TO-92	2.5V, micropower volt reference	.29	.25	.19
1805097	ADI	ADUM1201ARZ	SOIC-8	2 channel digital isolator	2.75	2.25	1.75
118578	+	MC1495L	DIP-14	Linear 4 quadrant multiplier	9.95	8.95	7.95
23211	+	LM1496N	DIP-14	Balanced mod/demodulator	.69	.59	.49
1944821	+	P1803AC	TO-220	Balanced three-chip sidactor	*	.09	.07
34278	+	ULN2003A*	DIP-16	Hi-volt/curr. darl. transistor array	.35	.29	.25
1147178	TI	ULN2003AN	DIP-16	Hi-volt/curr. darl. transistor array	.49	.45	.35
193826	+	ULN2003AD	SOIC-16	Hi-volt/curr. darl. transistor array	.49	.39	.35
34294	+	ULN2004AN	DIP-16	Hi-volt/curr. darl. transistor array	.39	.35	.29
700630	TI	ULN2004AN	DIP-16	Hi-volt/curr. darl. transistor array	.49	.45	.35
34972	EXR	XR2206CP	DIP-16	Monolithic function generator	5.49	4.95	4.49
34999	+	XR2211	DIP-14	FSK demodulator/tone decoder	1.95	1.75	1.49
280073	TI	TLE2426CLP	TO-92/3	Rail splitter prec. virtual ground	1.39	1.29	1.19
2125798	AST	AS2431	TO-92/3	Precision adjustable shunt	.39	.29	.19
34315	+	ULN2803A*	DIP-18	Hi-volt/curr. darl. transistor array	.59	.55	.49
34316	+	ULN2803A	DIP-18	Hi-volt/curr. darl. transistor array	.59	.55	.49
700664	TI	ULN2803AN	DIP-18	Darlington transistor array, I-temp	1.15	.95	.85
123625	NSC	LM2907N-8	DIP-8	Frequency to volt converter	1.75	1.35	1.09
23317	NSC	LM2907N	DIP-14	Frequency to volt converter	1.75	1.55	1.15
23350	NSC	LM2917N-8	DIP-8	Freq. to volt conv. w/ zener	1.95	1.75	1.49
23341	NSC	LM2917N-14	DIP-14	Freq. to volt conv. w/ zener	1.75	1.45	1.25
12079	+	CA3046N	DIP-14	NPN transistor array	1.49	1.39	1.25
12159	+	CA3086N	DIP-14	NPN transistor array	1.95	1.75	1.49
1797605	ADI	ADG3123BRUZ	TSSOP-20	8-channel CMOS logic	3.25	2.95	2.49
31974	+	SG3524N	DIP-16	Regulating pulse width modulator	.65	.55	.45
25275	+	MC4044P	DIP-14	Frequency phase detector	6.95	5.95	5.25
29372	EXR	XR4151CP-F	DIP-8	Volt to frequency converter	1.49	1.29	1.09
698509	ST	M48202-150PC1	DIP-24	5V, 150ns, 16k zeropower™ SRAM	4.95	4.49	4.25
1950868	CAL	CWB534N	DIP-14	Dual mono CMOS/DMOS analog sw	*	.09	.07
1944759	NXP	SAA6579	DIP-16	Radio data system demodulator	*	.07	.05
312135	TI	TPS6735IP	DIP-8	Fixed neg 5V 200mA invert DC/DC con	1.25	.95	.75

\*10 pcs./ \*\*20 pcs. in Linear cabinet kit, pg 15

Linear Series continued on next page

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 189.





## Linear Series (Continued)

\*Web Code: FAD

Part No.	*Mfr.	Product No.	Pkg/Pins	Description	* Order in multiples of 10		
					1	10	100
288163	ADI	AD7501KN	DIP-16	8 channel analog multiplexer .....	\$6.95	\$5.95	\$4.95
51140	+	7555IPA	DIP-8	CMOS timer .....	.39	.35	.29
51174	+	7660CPA	DIP-8	CMOS volt convtr (+5 to ±5V) .....	.75	.59	.49
316646	+	ICL7662CPA	DIP-8	Volt convtr., 20Vin, 4.5-20V out .....	2.75	2.25	2.15
1083476	TI	TL7712ACP	DIP-8	Supply voltage supervisor .....	*.09	.07	
316531	MCH	TC9400COD	SOIC-14	Volt freq/freq volt converter .....	3.95	3.75	3.25
25021	ON	MC14411P	DIP-24	Bit rate frequency generator .....	4.95	4.49	4.25
25064	ON	MC14490P	DIP-16	Hex contact bounce eliminator .....	4.25	3.95	3.49
118586	ON	MC145151P	DIP-28	Parallel input PLL freq synthesizer ...	5.95	5.49	4.95
1054684	TI	SN75441ONE	DIP-16	Quad half-H drivers .....	1.95	1.75	1.55

\*10 pcs. in Linear kit, below

## Linear IC Kit

SAVE \$71

10 each: TL072CP, TL074CN, TL082CP, TL084CN, MAX232CPE, LM301N, LM308N, LM311N, LM337T, LF353N, LF356N, LM358N, LM386N-1, LM386N-3, LM393N, LF411CN, LF412CN, LMC555CN, LM556N, LM723CN, LM1458N, DS1488N, DS1489N, ULN2003A, ULN2803A, NE5532N, 7808T, 78L12, 78L15, 7905T, 7912CT, 7915CT

20 each: LM317T, LM324N, LM339N, LM741CN, LM555CN, 7805T, 78L05, 78L12T

Part No.	Description	Wt. (lbs.)	1	5
84988	480 pcs. (40 types) analog IC kit	6.0	\$189.95	\$169.95
130411	Refill for 84988 (480 pcs.)	1.3	174.95	159.95

## Temperature Sensors

\*Web Code: WAN

Part No.	*Mfr.	Product No.	Pkg/Pins	Description	1	10	100
107094	NSC	LM34CZ	TO-92/3	Prec temp sensor (-40° to +230°F) .....	\$5.95	\$5.25	\$4.75
193480	NSC	LM34DM	SOIC-8	Prec temp sensor (-55° to 300°F) .....	1.95	1.49	1.19
155192	NSC	LM34DZ	TO-92/3	Prec temp sensor (+32° to +212°F) ..	2.25	1.95	1.49
107107	NSC	LM35CZ	TO-92/3	Prec temp sensor (-40° to 110°C) .....	4.95	4.15	3.49
192217	NSC	LM35DT	TO-220/3	Prec temp sensor (-55° to 150°C) ....	2.49	1.95	1.55
155740	NSC	LM35DZ	TO-92/3	Prec temp sensor (0° to +100°C) .....	1.59	1.25	.95
301604	NSC	LM74CIBP-5	µSMD-5	12-bit + sign digital temp sensor.....	1.09	.99	.79
301621	NSC	LM74CIM-3	SOIC-8	12-bit + sign digital temp sensor .....	.99	.79	.69
120820	+	LM335AZ	TO-92/3	Precision temperature sensor .....	.79	.69	.59
23755	+	LM335Z	TO-92/3	Volt mode temperature sensor .....	.75	.65	.55
241939	ADI	AD590JH	TO-52/3	Two terminal IC temp transducer .....	7.49	6.49	5.49
313306	ADI	AD594AQ	DIP-14	Thermocple amp for iron-constantan ..	13.95	13.49	13.25
313293	ADI	AD595AQ	DIP-14	Thermocple amp for chromel-alumel ..	14.95	13.95	12.95
302551	DAL	DS18S20	TO-92/3	High-prec. 1-wire digital thermo ....	3.95	3.25	2.25



## Hall Effect Sensors

\*Web Code: REB

Part No.	Mfr.	Part No.	Pkg.	Description	1	10	100
1718743		A1302EUA-T	SIP-3	Continuous-time ratiometric linear sensor	\$1.95	\$1.75	\$1.49
1871879		OH180U	SIP-3	Mono IC w/ hall linear amp & sensor ...	2.75	2.49	1.95

## Digital Potentiometers

\*Web Code: JBP

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
1778367	ADI	AD5282BRU200	TSSOP-16	Dual, 256 position .....	\$2.75	\$2.49	\$1.95
2044373	MAX	MAX5402EUA	8uMAX	256-Tap, uPot, low drift .....	1.25	.99	.75
241744	MCH	MCP41010-I/P	DIP-8	10kΩ, 256 steps, SPI .....	1.45	1.35	1.25
241752	MCH	MCP42010-I/P	DIP-14	10kΩ, 256 steps, 2-ch SPI .....	2.09	1.95	1.59
1777604	ADI	AD5204BN100	DIP-24	100kΩ, 256 steps, 4-ch SPI .....	3.95	2.75	2.49

\*Pressure Sensors Available Online — Enter Web Code JBV

\*MUX/DEMUXs Available Online — Enter Web Code RAB

\*Voltage References Available Online — Enter Web Code TBD

\*Hot Swap Controllers Available Online — Enter Web Code JAX

## Voltage Regulators

\*Web Code: TAC

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	* Order in multiples of 10		
					1	10	100
23499	+	LM309K	TO-3/2	5V, 1A (0°C to +125°C) .....	\$5.95	\$5.49	\$4.95
192268	NSC	LM317AT	TO-220/3	3-terminal adj. (1.2V-37V) .....	1.65	1.35	.95
837898	NSC	LM317AT/NOPB	TO-220/3	3-term. 1.5A output adj pos, I-temp ..	1.75	1.45	1.05
898359	NSC	LM317EMP	SOT-223/4	3-term 1A output adj pos C-temp ....	.99	.89	.79
192276	NSC	LM317HVT	TO-220/3	3-terminal adj. (1.2V-57V) .....	2.25	1.75	1.35
837927	NSC	LM317HVT/NOPB	TO-220/3	3-term. 1A output adj pos, C-temp ..	2.75	2.25	1.75
23544	+	LM317K	TO-3/2	1.5A adj. positive (1.2V-37V) ..	2.75	2.49	2.25
23552	+	LM317LZ	TO-92/3	100mA adj. positive (1.2V-37V) ..	.29	.25	.22
898543	NSC	LM317LZ/NOPB	TO-92/3	Adjustable, 100mA positive .....	.69	.59	.49
886420	NSC	LM317TP+	TO-220/3	1.5 adj. pos (staggered leads) .....	.29	.22	.15
23579	+	LM317T**	TO-220/3	1.5A adj. positive (1.2V-37V) ....	.35	.29	.25
23580	+	LM317T	TO-220/3	1.5A adj. positive (1.2V-37V) ....	.39	.35	.29
898800	NSC	LM317T/NOPB	TO-220/3	Adjustable, 1.5A positive .....	1.59	1.35	1.05
23667	+	LM323K	TO-3/2	5V, 3A positive .....	4.75	4.25	3.59
23798	+	LM337K	TO-3/2	1.5A/3 term adj. neg. reg. ....	1.95	1.75	1.49
296841	+	LM337LZ	TO-92/3	3-terminal adj. neg. ....	.99	.79	.59
23819	+	LM337T*	TO-220/3	1.5A/adj. neg. (-1.2V-37V) .....	.45	.35	.29
899520	NSC	LM337T/NOPB	TO-220/3	1.5A adjustable negative .....	.75	.65	.45
23835	+	LM338K	TO-3/2	5A adj. positive (1.2V-32V) .....	6.95	6.25	5.75
192284	NSC	LM338T	TO-220/3	5A adjustable .....	1.95	1.65	1.35
838621	NSC	LM338T/NOPB	TO-220/3	5A adjustable positive .....	2.25	1.75	1.45
900017	NSC	LM340T-5.0	TO-220/3	5V, 1A positive, I-temp .....	1.25	1.05	.85
23931	+	LM350K	TO-3/2	3A/3 term. adj. pos. (1.2V-33V) ..	5.95	5.49	4.95
23940	+	LM350T	TO-220/3	3A adjustable power .....	.69	.59	.49
276517	MAX	MAX637ACSA	SOIC-8	Preset/adj output CMOS invert switch reg	2.95	2.49	2.25
24467	+	LM723CN*	DIP-14	Voltage regulator (2V-37V) .....	.35	.29	.25
301719	+	LM723H	TO-5/10	2V - 37V, 150mA adj. ....	4.49	3.95	3.75
298071	MAX	MAX755CSA	SOIC-8	-5V/adj. output. invert curr. mode PWM reg	1.49	1.09	.89
107166	NSC	LM2936Z-5.0	TO-92/3	Ultra-low quiescent current 5V ..	2.25	1.75	1.39
51246	+	7805K	TO-3/2	5V, 1A positive (LM340K-5) ....	2.49	2.25	1.95
51262	+	7805T**	TO-220/3	5V, 1A positive (LM340T-5) .....	.29	.25	.22
51263	+	7805T	TO-220/3	5V, 1A positive (LM340T-5) .....	.35	.29	.25
924570	ST	L7805ACV	TO-220/3	5V, 1.5A positive .....	.29	.25	.22
1130069	TI	UA7805CKCS	TO-220/3	5V, 1.5A positive .....	.79	.69	.59
924633	ST	L7805CV	TO-220/3	5V, 1.5A positive .....	.45	.35	.29
786138	FSC	LM7805CT	TO-220/3	5V, 1A positive, I-temp .....	.45	.39	.35
902071	NSC	LM7805CT	TO-220/3	5V, 1A positive .....	1.09	.99	.89
876221	ON	MC7805CT	TO-220/3	5V, 1A positive, C-temp .....	.45	.39	.35
876248	ON	MC7805CTG	TO-220/3	5V, 1A positive, C-temp .....	.35	.29	.25
51182	+	78L05**	TO-92/3	5V, 100mA positive .....	.25	.22	.17
51183	+	78L05	TO-92/3	5V, 100mA positive .....	.29	.25	.19
973831	FSC	LM78L05ACZ	TO-92/3	5V, 100mA positive, I-temp .....	*.19	.15	
1303290	NSC	LM78L05ACZ/NOPB	TO-92/3	3-terminal 5V, 100mA positive ..	.69	.55	.45
192233	+	78M05	TO-220/3	5V, 500mA positive .....	.29	.25	.22
51297	+	7806T	TO-220/3	6V, 1A positive (LM340T-6) .....	.35	.29	.25
51300	+	7808T*	TO-220/3	8V, 1A positive (LM340T-8) .....	.35	.29	.25
876352	ON	MC7809CT	TO-220/3	9V, 1A pos., C-temp .....	.29	.25	.22
192225	+	78L09ACZ	TO-92/3	9V, 100mA positive .....	.25	.22	.17
51318	+	7812K	TO-3/2	12V, 1A pos. (LM340K-12) .....	2.15	1.95	1.75
51334	+	7812T**	TO-220/3	12V, 1A pos. (LM340T-12) .....	.29	.25	.22
51335	+	7812T	TO-220/3	12V, 1A pos. (LM340T-12) .....	.35	.29	.25
889305	ST	L7812CV	TO-220/3	12V, 1.5A positive .....	.29	.25	.22
902127	NSC	LM7812CT	TO-220/3	12V, 1A positive .....	1.05	.95	.85
51203	+	78L12*	TO-92/3	12V, 100mA positive .....	.25	.22	.17
902389	NSC	LM78L12ACZ	TO-92/3	3-terminal 12V positive .....	.35	.25	.19
192241	+	78M12	TO-220/3	12V, 500mA positive .....	.29	.25	.22
51369	+	7815K	TO-3/2	15V, 1A pos. (LM340K-15) .....	2.49	2.25	1.95
2125384	NEC	PC7815HF	TO-220/3	15V, 500mA positive .....	.25	.22	.19
51377	+	7815T*	TO-220/3	15V, 1A pos. (LM340T-15) .....	.35	.29	.25
902151	NSC	LM7815CT	TO-220/3	3-terminal 15V .....	1.49	1.29	1.19
51414	+	7824T	TO-220/3	24V, 1A positive (LM340T-24) ..	.25	.22	.19

\*10 pcs./ \*\*20 pcs. included in Linear kit, above left

Continued on next page

\*ADI = Analog Dev. | AST = Astec | DAL = Dallas | EXR = EXAR | INS = Intersil | MCH = Microchip | NSC = National | NXP = NXP/Philip | ON = ON Semi | ST = ST Micro | TI = Texas Ins. | + Varies

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed AboveOrder by Phone at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# Voltage Regulators & IC Sockets

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

## Voltage Regulators (Continued)

\*Web Code: TAC

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10	100
51457	♦	7905T*	TO-220/3	-5V, 1A neg. (LM320T-5).....	\$.35	\$.29	\$.25
51422	♦	79L05	TO-92/3	-5V, 100mA negative .....	.25	.22	.17
51481	♦	7912T*	TO-220/3	-12V, 1A neg. (LM320T-12).....	.35	.29	.25
51502	♦	7915T*	TO-220/3	-15V, 1A neg. (LM320T-15).....	.29	.25	.22
316945	MOT	MC34063AP1	DIP-8	1.5 step-up/down invert sw reg ...	.49	.39	.35
260259	NTE	NTE960	TO-220	+5V, 1A, fixed .....	.75	.65	.45

\*10 pcs. included in Linear kit, pg 15

## Simple Switcher Voltage Regulators

\*Web Code: VAX

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10
1742524	LTC	LT1959CS8*PBF	SOIC-8	4.5A, 500kHz step-down, C-temp .....	\$4.95	\$3.95
156566	♦	LM2574N-5	DIP-8	5V step-down regulator .....	1.49	1.25
279638	NSC	LM2575HVT-5.0	TO-220/5	1A step-down V-reg, hi Vin range .....	2.25	1.95
894817	NSC	LM2576T-5.0/LB03	TO-220/5	Simple switcher 3A step down, I-temp ...	1.49	1.09
192381	NSC	LM2576HVT-5.0	TO-220/5	3A step down V-reg, high Vin range .....	5.75	4.75
192372	NSC	LM2576HVT-ADJ	TO-220/5	3A step-down V-reg, high Vin range .....	5.75	4.75
245569	♦	LM2576T-5.0	TO-220/5	3A step-down voltage regulator .....	2.75	2.25
120977	♦	LM2576T-ADJ	TO-220/5	3A step-down voltage regulator .....	1.95	1.75
300898	NSC	LM2586S-12	TO-263/7	3A flyback regulator with shutdown .....	3.95	3.49
300871	NSC	LM2586S-5.0	TO-263/7	3A flyback regulator with shutdown .....	3.95	3.49
300821	NSC	LM2586S-ADJ	TO-263/7	3A flyback regulator with shutdown .....	3.75	3.49
300919	NSC	LM2586T-ADJ	TO-220	3A flyback regulator with shutdown ...	3.75	3.25
300732	NSC	LM2592HVT-3.3	TO-220	2A step down voltage regulator .....	2.95	2.49
310391	NSC	LM2596S-5.0	TO-263/5	3A step down voltage regulator .....	1.75	1.49
300265	NSC	LM2595S-ADJ	TO-263/5	1A step down voltage regulator .....	1.49	1.25
290642	NSC	LM2596T-5.0	TO-220/7	3A step down voltage regulator .....	2.25	1.95
290394	NSC	LM2599S-ADJ	TO-263/7	3A step down voltage regulator .....	2.75	2.25
290749	NSC	LM2651MTC-3.3	TSSOP-16	1.5A high eff. synch switching reg .....	2.25	1.75
312389	NSC	LM2653MTC-ADJ	TSSOP-16	1.5A high eff. synch switching reg .....	2.25	1.95
290888	NSC	LM2674M-ADJ	SOIC-8	Adj voltage high eff. switcher .....	1.75	1.49
291012	NSC	LM2675N-ADJ	DIP-8	1A step down voltage reg power conv ..	2.25	1.95

## Low Drop-Out Voltage Regulators

\*Web Code: MBT

* Order in multiples of 10					1	10	100
Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10	100
299743	NSC	LM1084IT-ADJ	TO-220/3	5A low dropout adj. pos. ....	\$2.95	\$2.49	\$1.95
299735	NSC	LM1084IT-3.3	TO-220/3	5A low dropout 3.3V pos. ....	2.49	1.95	1.59
2100523	♦	AMS1085CD	TO-252	3A low dropout adj. pos. ....	.49	.39	.19
282757	♦	LT1085CT	TO-220/3	3A low dropout adj./fixed pos. ....	1.75	1.49	1.25
192305	♦	LM1086CT-3.3	TO-220/3	1.5A low dropout pos. (3.3V) ....	1.15	.85	.65
192313	♦	LM1086CT-5.0	TO-220/3	1.5A low dropout pos. (5V) ....	1.75	1.49	1.25
251782	NSC	LM1117MPX-ADJ	SOT-223/3	800mA low dropout linear .....	.89	.69	.59
242114	♦	LM1117T-3.3	TO-220/3	800mA, 3.3V, LDO .....	.89	.79	.69
242115	NSC	LM1117T-3.3/NOPB	TO-220/3	800mA, 3.3V, LDO .....	1.45	1.19	.85
2126230	TI	UC2833DW	SOIC-16	2V, 1A prec. LDO reg./controller ..	6.95	6.25	5.49
897188	NSC	LM2937ET-3.3	TO-220/3	500mA, 3.3V LDO, I-temp .....	1.75	1.45	1.09
297810	NSC	LM2937ET-5.0	TO-220/3	500mA, 5V LDO .....	1.75	1.45	.95
107182	♦	LM2940CT-5	TO-220/3	5V LDO reg. (max. 45Vin) .....	1.45	1.19	.89
897381	NSC	LM2940CT-5.0/NOPB	TO-220/3	1A, 5V LDO positive .....	1.55	1.25	.95
192495	NSC	LM2940CT-12	TO-220/3	12V LDO reg. (max. 45Vin) .....	1.45	1.15	.85
837505	NSC	LM2940T-5.0/NOPB	TO-220/3	1A, 5V LDO, I-temp .....	1.45	1.15	.85
121064	♦	LM2941CT	TO-220/5	1A LDO adjustable (45Vin) .....	1.65	1.39	1.15
1944880	♦	LP2950ACN	TO-92/3	100mA 5V LDO reg. ....	.39	.35	.29
1323397	NSC	LP2950ACZ-3.3/NOPB	TO-92	3.3V $\mu$ pwr volt. reg., I-temp .....	.89	.79	.69
266757	♦	LP2950CZ-5.0	TO-92/3	100mA low pwr. LDO .....	.69	.59	.49
121110	♦	LP2951ACP	DIP-8	Adjustable $\mu$ power volt-reg. ....	.59	.49	.35
1315492	ON	LP2951CN-3.0	DIP-8	3V, 100mA LP LDO (I-temp) .....	♦	.09	.07
2126328	♦	AS2954	TO-92/3	3.3V, 250mA LDO .....	1.95	1.75	1.59
192524	♦	LM3940IT-3.3	TO-220/3	1A LDO for 5V to 3.3V .....	1.75	1.45	1.05
1119791	TI	TPS75701KTTT	TO-263	Fast transient response 3A, I-temp ...	3.49	2.95	2.49
700496	TI	TPS78625KTTT	TO-263	Ultra low noise, hi-PSRR 1.5A .....	2.25	1.95	1.75

\*Power Drivers & Modules Available Online — Enter Web Code REK

\*Switching Regulators Available Online — Enter Web Code DEN

## AMP DIP Low-Profile IC Sockets

\*Web Code: QAF

### Economy Ladder Style

- Dual wipe
- Housing: glass filled thermoplastic, black
- Contacts: phosphor bronze tin plating
- † Plating: A – 15 $\mu$ " gold; B – 60 $\mu$ " tin

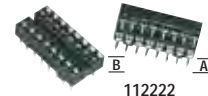


Order in multiples of 10					10	100	500
Part No.	*Mfr.	Part No.	Pos.	Plating†	Width (ins.)		
683091	1-390261-1	6	B	0.3	0.3	\$.13	\$.10
526299	390261-2	8	B	0.3	0.3	.12	.09
683104	1-390261-2	8	B	0.3	0.3	.13	.10
837679	2-640463-4	8	A	0.3	0.3	.59	.49
526192	390261-3	14	B	0.3	0.3	.12	.09
683112	1-390261-3	14	B	0.3	0.3	.13	.10
526205	390261-4	16	B	0.3	0.3	.17	.11
683121	1-390261-4	16	B	0.3	0.3	.19	.12
524584	2-640358-4	16	A	0.3	0.3	.69	.65
526213	390261-5	18	B	0.3	0.3	.15	.14
683139	1-390261-5	18	B	0.3	0.3	.16	.15
526221	390261-6	20	B	0.3	0.3	.16	.15
683147	1-390261-6	20	B	0.3	0.3	.17	.16
683163	1-390261-8	24	B	0.3	0.3	.22	.20
683198	1-390262-1	24	B	0.6	0.6	.25	.21
526248	390261-9	28	B	0.3	0.3	.24	.22
683171	1-390261-9	28	B	0.3	0.3	.25	.23
526256	390262-2	28	B	0.6	0.6	.22	.19
683201	1-390262-2	28	B	0.6	0.6	.24	.22
526272	390262-5	40	B	0.6	0.6	.32	.29
683227	1-390262-5	40	B	0.6	0.6	.35	.33

## Single Dual Wipe Solder Tail Low-Profile IC Sockets

- Contact current: 1A
- Contact resistance: less than 5m $\Omega$
- Dielectric withstanding voltage: 300V
- Insulation resistance: greater than 1000M $\Omega$
- Thru-hole lead length: .140" (A) • Body height: .188" (B)

\*Web Code: WAP

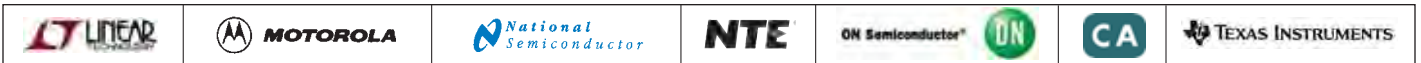


Order in multiples of 10					10	100	1000
Part No.	*Mfr.	Product No.	Pins	Width (ins.)			
112193	JVP	6LPD	6	0.3	0.3	\$.13	\$.10
51571	♦	8LPD	8	0.3	0.3	.12	.09
112206	JVP	8LPD	8	0.3	0.3	.13	.10
37162	♦	14LP (single wipe)	14	0.3	0.3	.12	.09
689936	♦	ED14DT	14	0.3	0.3	.12	.09
112214	JVP	14LPD	14	0.3	0.3	.13	.10
37372	♦	16LP (single wipe)	16	0.3	0.3	.10	.08
37373	JVP	16LPD	16	0.3	0.3	.17	.11
112222	JVP	16LPD	16	0.3	0.3	.19	.12
38113	♦	18LP (single wipe)	18	0.3	0.3	.14	.12
689952	♦	ED18DT	18	0.3	0.3	.14	.12
112231	JVP	18LPD	18	0.3	0.3	.16	.15
38607	♦	20LP (single wipe)	20	0.3	0.3	.12	.10
112248	♦	20LPD	20	0.3	0.3	.16	.15
38608	JVP	20LPD	20	0.3	0.3	.17	.16
112256	♦	22SLPD	22	0.3	0.3	.12	.09
39132	JVP	22LPD	22	0.4	0.4	.17	.16
39378	♦	24SLPD	24	0.3	0.3	.21	.19
112282	JVP	24SLPD	24	0.3	0.3	.22	.20
112264	♦	24LPD	24	0.6	0.6	.23	.21
112266	JVP	24LPD	24	0.6	0.6	.25	.21
112299	♦	28SLPD	28	0.3	0.3	.24	.22
112300	JVP	28SLPD	28	0.3	0.3	.25	.19
112272	♦	28LPD	28	0.6	0.6	.22	.19
40301	JVP	28LPD	28	0.6	0.6	.24	.22
137621	JVP	32SLPD	32	0.3	0.3	.25	.22
689979	♦	ED32DT	32	0.6	0.6	.19	.17
112301	JVP	32LPD	32	0.6	0.6	.29	.25
41111	♦	40LPD	40	0.6	0.6	.32	.29
112311	JVP	40LPD	40	0.6	0.6	.35	.33
137622	♦	42LPD	42	0.6	0.6	.25	.22
112326	JVP	64LDP	64	0.9	0.9	.29	.19

\* LTC = Linear Tech | MOT = Motorola | NSC = National Semi | NTE = NTE Elec. | ON = ON Semi | TI = Texas Instruments | ♦ = Manufacturer Varies

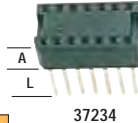
RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.





## 2 & 3 Level Wire Wrap IC Sockets

- Contact plating/leads: gold (WW) or tin (TWW); dual wipe
- Contact current: 1A • Contact resistance: <5mΩ
- Sleeve material: brass
- Dielectric withstanding voltage: 300V
- Material: beryllium copper or phosphor bronze
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Thru-hole lead length: .438" (L2); .638" (L3) • Body height: .300" (A)



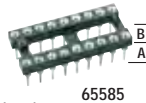
★ Web Code: SAF

Part No.	*Mfr.	Product No.	Pins	Width (in.)	1	10	100
37218	CA	14TWW2	14	0.3	\$2.25	\$1.95	\$1.75
37234	CA	14WW2	14	0.3	3.25	2.95	2.75
196841	+	14TWW3	14	0.3	1.49	1.25	.95
37437	CA	16TWW2	16	0.3	2.75	2.49	2.25
37480	CA	16WW2	16	0.3	3.49	3.25	2.95
75380	CA	20TWW2	20	0.3	3.49	3.25	2.95
38675	CA	20WW2	20	0.3	3.49	3.25	2.95
75416	CA	24TWW2	24	0.6	2.95	2.65	2.39
40353	CA	28WW2	28	0.6	5.95	5.39	4.75
41180	CA	40TWW2	40	0.6	6.95	5.95	4.95

## Machine Tooled Solder Tail Low-Profile IC Sockets

- Contact plating: gold • Contact current: 3A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300V<sub>RMS</sub>
- Insulation resistance: greater than 1000MΩ
- Material: beryllium copper or phosphor bronze • Tin-plated leads
- Thru-hole lead length: .177" (A) • Body height: .117" (B)

★ Web Code: GBA



Part No.	*Mfr.	Product No.	Pins	Width (in.)	1	10	100
167004	JVP	6MLP	6	0.3	\$3.39	\$2.29	\$1.19
51626	JVP	8MLP	8	0.3	.49	.45	.29
37197	JVP	14MLP	14	0.3	.65	.55	.39
37402	JVP	16MLP	16	0.3	.75	.59	.45
65585	JVP	18MLP	18	0.3	.89	.75	.55
38623	JVP	20MLP	20	0.3	.85	.69	.49
192209	+	22SMLP	22	0.4	1.25	1.09	.89
39386	+	24SMLP	24	0.3	.95	.79	.59
39387	JVP	24SMLP	24	0.3	.99	.85	.65
39351	JVP	24MLP	24	0.6	1.09	.89	.65
652359	+	24MLP-GOLD	24	0.6	.99	.79	.55
114412	JVP	28SMLP	28	0.3	1.09	.89	.65
40328	+	28MLP	28	0.6	1.19	.95	.69
40329	JVP	28MLP	28	0.6	1.25	.99	.75
223002	+	324SMLP	32	0.4	.69	.49	.29
105381	JVP	32MLP	32	0.6	1.35	1.09	.89
662629	+	40MLP	40	0.6	1.35	1.09	.89
41136	JVP	40MLP	40	0.6	1.69	1.39	.95
42059	+	48MLP	48	0.6	1.89	1.59	1.29
200707	+	64MLP	64	0.9	2.95	2.49	1.95

## Wire Wrap IC Socket I.D. Markers

- Material: plastic
- Can easily write location, part number or function
- Quick identification of pin numbers
- Slips onto socket before wrapping

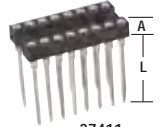


★ Web Code: YAG

Part No.	*Mfr.	Part No.	Pins	Width (in.)	1	10	100
51561	ID-8-100		8	0.3	\$5.59	\$4.49	\$3.39
37145	ID-14-100		14	0.3	.69	.59	.45
38586	ID-20-50		20	0.3	.95	.75	.49
40299	ID-28-25		28	0.6	1.09	.89	.55

## 3 Level Machine Tooled Wire Wrap IC Sockets

- Contact plating: gold
- Sleeve material: brass
- Contact resis.: <5m • Tin-plated leads
- Material: beryllium copper or phosphor bronze
- Dielectric withstanding voltage: 300V<sub>RMS</sub>
- Insulation resistance: greater than 1000MΩ
- Body height: .115" (A)
- Thru-hole lead length: .586" (L)
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide



★ Web Code: FAL

Part No.	Cross Ref. No.	Pins	Width (in.)	1	10	100
94474	8MSWW3	8	0.3	\$1.49	\$1.35	\$1.19
62051	14MSWW3	14	0.3	1.75	1.55	1.39
37411	16MSWW3	16	0.3	2.25	1.95	1.75
94482	18MSWW3	18	0.3	2.25	1.95	1.75
38632	20MSWW3	20	0.3	2.49	2.25	1.95
185324	22MSWW3	22	0.3	1.25	.95	.75
105372	24MSWW3	24	0.3	2.75	2.49	2.25
94491	24MSWW3	24	0.6	2.95	2.75	2.49
200716	283MSWW3	28	0.3	3.25	2.95	2.75
40337	28MSWW3	28	0.6	3.25	2.95	2.75
117058	32MSWW3	32	0.6	3.49	3.19	2.79
94503	40MSWW3	40	0.6	3.95	3.55	3.19
200723	48MSWW3	48	0.6	1.95	1.49	1.25

## PLCC Thru-Hole Sockets

★ Web Code: YAH

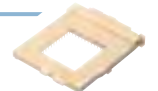
- Solder tail allows through-hole board patterns in .100" grid
- Thru-hole lead length: .125"
- Accepts JEDEC type "A" plastic leaded chip (0.05" centers)



Part No.	Cross Ref. No.	Pins	Body Height (in.)	1	10	100
71263	G1P428	28	.375	\$6.65	\$5.55	\$4.49
71811	G1P32	32	.375	.69	.59	.55
71618	G1P444	44	.375	.75	.65	.59
71619	G1P444	44	.375	.79	.69	.65
72442	G1P452	52	.375	.85	.75	.69
71969	G1P468	68	.375	.89	.79	.75
71977	G1P484	84	.375	.95	.85	.79

## AMP PGA Socket

- Intel Celeron, PIII chip compatibility
- LCP cover material, UL94V-0 natural • Open frame style
- Low profile • 19 x 19 grid • Contacts: copper alloy/gold

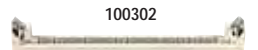


Part No.	*Mfr.	Part No.	Pins	1	10	100
838735	2-916783-2		370	\$3.95	\$2.95	\$2.25

## SIMM Vertical Sockets

★ Web Code: WAL

- Locking tabs • Tinned contacts
- Memory module sockets • Keyed mounting posts



Part No.	*Mfr.	Product No.	Description	1	10	100
100302	JVP	2000-1X30S	Single x 30-pin, vertical	\$1.49	\$1.35	\$1.19
1954754	+	ES1533	Single x 72-pin, vertical	1.95	1.75	1.49
1954746	+	ES1538	Dual x 30-pin, vertical	.29	.25	.22
1954762	+	ES1536	Dual x 72-pin, vertical	.99	.79	.39

## .050" (1.27mm) DDR DIMM Socket

- 25" low profile • Voltage key: 2.5V, left polarization
- Plating tail: tin, lead free • Contact: copper alloy
- Contact plating: .38μm (15μ") gold



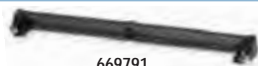
Part No.	*Mfr.	Part No.	Position	1	10
668511	87623-2001		184	\$2.95	\$2.25

\* CA = Circuit Assembly | JVP = Jameco ValuePro | + Manufacturer Varies

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## molex .050" (1.27mm) Pitch SIMM Sockets

- 72 positions
  - Left polarization
  - Contact: phosphor bronze
  - PCB retention: press-fit plastic peg
  - Contact plating (plating thickness): gold (0.76µm; 30µ"); tin/lead (5µm; 200µ")
- 669791: Right polarization; gold contact plating



Part No.	Mfr. Part No.	Description	1	10
669791	15-82-0778	Vertical	\$1.95	\$1.49
670784	15-82-1538	Right angle	1.95	1.49

## Transistors

\*Web Code: FEN

* Order in multiples of 10									
Part No.	Mfr.	Product No.	Pkg.	Desc.	V <sub>ceo</sub>	Min. (h <sub>FE</sub> @ Ic)	1	10	100
26462	♦	MPSA06	TO-92	NPN	80	100k @ .01A	\$.05	\$.04	
26489	♦	MPSA13*	TO-92	NPN	30	5k @ .01A	\$.08	\$.07	
210593	♦	MPSA14	TO-92	NPN	30	20k @ .10A	\$.05	\$.04	
210681	♦	MPSA18	TO-92	NPN	45	500 @ .001A	\$.07	\$.06	
33021	♦	TIP29A	TO-220	NPN	60	15 @ 1A	\$.35	\$.29	\$.25
33048	♦	TIP31A*	TO-220	NPN	60	10 @ 3A	\$.29	\$.25	\$.22
179354	FSC	TIP31C	TO-220	NPN	100	10 @ 3A	\$.35	\$.29	\$.25
890568	ST	TIP35C	TO-247	NPN	100	25 @ 1.5A	1.29	1.19	1.09
33081	♦	TIP41A	TO-220	NPN	60	15 @ 3A	\$.45	\$.39	\$.35
179371	♦	TIP41C	TO-220	NPN	100	15 @ 3A	\$.35	\$.29	\$.25
178546	♦	MPSA42	TO-92	NPN	30	40 @ .03A	\$.07	\$.06	
288631	♦	TIP48	TO-220	NPN	300	30 @ .3A	\$.15	\$.12	
32977	♦	TIP102*	TO-220	NPN	100	1k @ 3A	\$.45	\$.39	\$.35
179240	FSC	TIP102	TO-220	NPN	100	1k @ 3A	\$.59	\$.49	\$.45
1094723	FSC	TIP102	TO-220	NPN	100	1k @ 3A	\$.65	\$.55	\$.49
32993	♦	TIP120*	TO-220	NPN	60	1k @ 3A	\$.39	\$.35	\$.29
32994	♦	TIP120	TO-220	NPN	60	1k @ 3A	\$.45	\$.39	\$.35
179291	FSC	TIP120	TO-220	NPN	60	1k @ 3A	\$.49	\$.45	\$.39
120416	♦	TIP122	TO-220	NPN	100	1k @ 3A	\$.35	\$.25	\$.22
179303	FSC	TIP122	TO-220	NPN	100	1k @ 3A	\$.39	\$.29	\$.25
260558	NTE	NTE123AP	TO-92	NPN	40	—	1.19	1.09	\$.99
890445	ST	TIP142	TO-218	NPN	100	1k @ 0.5A	1.05	\$.95	\$.85
254810	♦	BC337	TO-92	NPN	45	100 @ .10A	\$.07	\$.05	
254801	♦	BC547B	TO-92	NPN	45	330 @ .002A	\$.07	\$.06	
254799	♦	BC547C	TO-92	NPN	45	600 @ .002A	\$.05	\$.04	
254781	♦	BC548B	TO-92	NPN	30	110 @ .002A	\$.09	\$.07	
784790	FSC	BC549B	TO-92	NPN	30	110 @ 2mA	\$.05	\$.03	
916238	NXP	BC868T/R	SOT-89	NPN	20	85 @ 500mA	\$.12	\$.09	
800568	MOT	MPS918	TO-92	NPN	15	20 @ .003A	\$.08	\$.07	
38228	♦	2N2219A	TO-39	NPN	40	100 @ .15A	\$.45	\$.39	\$.35
26446	♦	MPQ2222	DIP-14	NPN	40	100 @ .15A	2.95	2.75	2.49
28628	♦	PN2222*	TO-92	NPN	30	100 @ .15A	\$.06	\$.05	
38236	♦	2N2222A*	TO-18	NPN	40	100 @ .15A	\$.49	\$.45	\$.39
38237	♦	2N2222A	TO-18	NPN	40	100 @ .15A	\$.55	\$.49	\$.45
213938	♦	MMBT2222A	SOT-23	NPN	40	100 @ .15A	\$.07	\$.05	
210673	♦	MPS2222A	TO-92	NPN	40	40 @ .50A	\$.05	\$.04	
2125448	PAN	2SC3526H	TO-92L	NPN	50	20 @ .10A	\$.99	\$.89	\$.69
178511	♦	PN2222A	TO-92	NPN	40	100 @ .15A	\$.06	\$.05	
178512	♦	PN2222A	TO-92	NPN	40	100 @ .15A	\$.07	\$.06	
38295	♦	2N3053*	TO-39	NPN	40	25 @ .15A	\$.65	\$.55	\$.49
38308	♦	2N3055*	TO-3	NPN	60	15 @ 10A	1.09	\$.99	\$.85
211406	♦	2N3055A	TO-3	NPN	60	20 @ 4A	1.75	1.45	1.15
211385	♦	TIP3055	TO-218	NPN	60	5 @ .001A	\$.85	\$.75	\$.69
25857	♦	MJE3055T	TO-220	NPN	60	20 @ 4A	\$.45	\$.39	\$.29
194415	♦	2N3439	TO-39	NPN	350	40 @ .02A	\$.75	\$.65	\$.55
209242	♦	2N3771	TO-3	NPN	40	15 @ 15A	2.19	1.95	1.75
38359	♦	2N3904*	TO-92	NPN	40	100 @ .01A	\$.05	\$.03	
38360	♦	2N3904	TO-92	NPN	40	100 @ .01A	\$.05	\$.03	
178597	FSC	2N3904	TO-92	NPN	40	100 @ .01A	\$.07	\$.035	
783421	FSC	2N3904	TO-92	NPN	40	100 @ .01A	\$.07	\$.04	
94967	♦	MMBT3904	SOT-23	NPN	40	100 @ .01A	\$.06	\$.04	
1944927	FSC	PN4275	TO-92	NPN	15	35 @ .01A	\$.04	\$.02	
38421	♦	2N4401*	TO-92	NPN	40	100 @ .15A	\$.06	\$.05	

\* 10 pcs./\*\* 100 pcs. in Transistor cabinet kit, right

## Transistors (Continued)

\*Web Code: FEN

* Order in multiples of 10									
Part No.	Mfr.	Product No.	Pkg.	Desc.	V <sub>ceo</sub>	Min. (h <sub>FE</sub> @ Ic)	1	10	100
783498	FSC	2N4401TA	TO-92	NPN	40	20 @ .1mA	\$.06	\$.05	
211490	♦	2N4923	TO-225	NPN	—	80 @ 1A	\$.45	\$.39	\$.35
2125608	MOT	SPS4942(9568)	TO-92	NPN	30	60 @ .5A	\$.05	\$.04	
1201380	FSC	PN4953	TO-92	NPN	30	150 @ .01A	\$.05	\$.04	
310666	♦	2N5038	TO-3	NPN	150	20 @ 12A	4.75	4.49	3.95
140373	♦	2N5179	TO-72	NPN	12	25 @ .003A	1.09	\$.99	\$.89
1945081	FSC	2N5306	TO-92	NPN	25	7000 @ .002A	\$.09	\$.07	
924300	ST	2N6284	TO-3/2	NPN	100	750 @ 10A	3.25	2.95	2.59
140353	♦	2N6488	TO-220AB	NPN	80	20 @ 5A	\$.29	\$.25	\$.15
1945031	FSC	MPS6515	TO-92	NPN	25	250 @ .002A	\$.05	\$.03	
194618	♦	2N6547	TO-3	NPN	400	12 @ 5A	4.49	4.25	3.75
194626	♦	2N6678	TO-3	NPN	400	8 @ 15A	6.95	5.95	4.95
33030	♦	TIP30A	TO-220	PNP	60	15 @ 1A	\$.39	\$.35	\$.29
33064	♦	TIP32A*	TO-220	PNP	60	10 @ 3A	\$.35	\$.29	\$.25
181841	♦	TIP32C	TO-220	PNP	100	10 @ 3A	\$.29	\$.25	\$.22
890592	ST	TIP36C	TO-218	PNP	100	25 @ 1.5A	1.09	\$.99	\$.89
33101	♦	TIP42A	TO-220	PNP	60	15 @ 3A	\$.39	\$.35	\$.29
139580	♦	TIP42C	TO-220	PNP	100	15 @ 3A	\$.45	\$.39	\$.35
32985	♦	TIP106	TO-220	PNP	80	1k @ 3A	\$.35	\$.29	\$.25
179258	♦	TIP107	TO-220	PNP	100	1k @ 3A	\$.45	\$.39	\$.35
288526	♦	TIP115	TO-220	PNP	60	1k @ 1A	\$.35	\$.29	\$.25
288542	♦	TIP117	TO-220	PNP	100	1k @ 1A	\$.29	\$.25	\$.19
33013	♦	TIP125	TO-220	PNP	60	1k @ 3A	\$.29	\$.25	\$.22
179320	♦	TIP127	TO-220	PNP	100	1k @ 3A	\$.35	\$.29	\$.25
890488	ST	TIP147	TO-218	PNP	100	1k @ 5A	1.49	1.39	1.25
260611	NTE	NTE159	TO-92	PNP	80	—	1.25	1.05	\$.95
1215986	♦	BC327	TO-92	PNP	-45	100 @ .10A	\$.15	\$.12	
1085500	FSC	MPS750RL	TO-92	PNP	40	75 @ .05A	\$.05	\$.03	
194378	♦	2N2905A	TO-39/3	PNP	60	100 @ .15A	\$.45	\$.39	\$.35
924297	ST	2N2907	TO-18	PNP	-40	75 @ -.01A	\$.59	\$.49	\$.45
26454	♦	MPQ2907	DIP-14	PNP	40	100 @ .15A	1.95	1.75	1.49
28644	♦	PN2907*	TO-92	PNP	40	100 @ .15A	\$.05	\$.03	
211342	♦	MPS2907A	TO-92	PNP	60	100 @ .15A	\$.07	\$.06	
178520	♦	PN2907A	TO-92	PNP	60	100 @ .15A	\$.05	\$.03	
38279	♦	2N2907A*	TO-18	PNP	60	100 @ .15A	\$.49	\$.45	\$.39
211502	♦	MJ2955	TO-3	PNP	60	20 @ 4A	\$.99	\$.89	\$.79
25831	♦	MJE2955T	TO-220	PNP	60	20 @ 4A	\$.39	\$.35	\$.29
1944986	FSC	PN3644	TO-92	PNP	45	100 @ .01A	\$.04	\$.02	
38375	♦	2N3906*	TO-92	PNP	40	100 @ .01A	\$.05	\$.03	
178618	FSC	2N3906	TO-92	PNP	40	100 @ .01A	\$.06	\$.035	
1944943	FSC	PN4122	TO-92	PNP	40	150 @ 1mA	\$.05	\$.03	
1944951	FSC	PN4355	TO-92	PNP	60	100 @ 1mA	\$.05	\$.03	
38447	♦	2N4403*	TO-92	PNP	40	100 @ .15A	\$.05	\$.04	
1944935	FSC	PN4917	TO-92	PNP	30	150 @ 1mA	\$.05	\$.03	
210649	♦	2N5401	TO-92	PNP	150	60 @ .01A	\$.11	\$.09	
253438	♦	2N5884	TO-3	PNP	80	4 @ 25A	2.75	2.49	1.75
194571	♦	2N6042	TO-220	PNP	100	1k @ 3A	\$.45	\$.35	\$.25
194597	♦	2N6052	TO-3	PNP	100	750 @ 6A	2.49	2.25	1.95
261121	NTE	NTE6410	TO-92	PNP	30	—	4.95	4.49	3.95
885697	ON	2N6520RLRA	TO-92	PNP	350	20 @ 1mA	\$.09	\$.07	
2095411	♦	—	Transistor mtg. pads TO-92/98/18/72				\$.05	\$.04	

\* 10 pcs./\*\* 100 pcs. in Transistor cabinet kit, below

## Transistor Assortment Cabinet Kit

Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 163 and 30 adhesive labels for drawers to identify parts in kit



10 each: 2N2222A, 2N2907A, 2N3053, 2N3055, 2N4401, 2N4403, 2N5951, 2N7000, MJE3055T, MPF102, MPSA06, MPSA13, TIP31A, TIP32A, TIP102, TIP120

100 each: 2N3904, 2N3906, PN2222, PN2907

Part No.	Description	Wt. (lbs.)	1	5
82595	560 pcs. (20 types) NPN, PNP transistor kit	5.1	\$69.95	\$59.95
130374	Refill for 82595 (560 pcs.)	0.4	54.95	49.95

\* FSC = Fairchild Semi | MOT = Motorola | NTE = NTE Elec. | NXP = NXP/Philp | ON = ON Semi | PAN = Panasonic | ST = ST Micro | ♦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.





## J-FETs

Please Note: Manufacturer may vary

\*Web Code: JAD

Part No.	Product No.	Pkg.	Channel	BV <sub>GS</sub> @ I <sub>G</sub> (μA)	I <sub>DSS</sub> (mA) @ V <sub>DS</sub>	Order in multiples of 10		
						10	100	1000
26403	MPF102*	TO-92	N	-25 @ -10	2 @ 15	\$ .10	\$ .09	\$ .07
210622	2N3819	TO-92	N	-25 @ -1	20 @ 15	.09	.07	.06
1945006	PN4093	TO-92	N	-40 @ 1	15 @ 20	.05	.03	.015
253948	2N5457	TO-92	N	-25 @ -10	1 @ 15	.12	.10	.08
253921	2N5458	TO-92	N	-25 @ -10	2 @ 15	.09	.07	.06
38527	2N5951*	TO-92	N	-30 @ -1	7 @ 15	.09	.07	.06
253913	2N5460	TO-92	P	40 @ 10	-1 @ -15	.13	.11	.09

\*10 pcs. in Transistor cabinet kit, pg 18

## N-Channel & P-Channel MOSFETs

\*Web Code: GCJ

Part No.	*Mfr.	Product No.	Pkg.	Channel	BV <sub>DS</sub>	Min. On-St. DS Current	* Order in multiples of 10		
							1	10	100
669871	+	IRFZ24N	TO-220AB	N	55	17A	\$.89	\$.79	\$.59
669927	+	IRFBG30	TO-220AB	N	1000	3.1A	1.59	1.39	1.19
669935	+	IRFZ34N	TO-220AB	N	55	26A	.85	.75	.65
669943	+	IRLZ34N	TO-220AB	N	55	30A	1.09	.89	.69
669951	+	IRFZ44N	TO-220AB	N	55	49A	1.25	1.05	.85
669978	+	IRFZ46N	TO-220AB	N	55	53A	.99	.89	.79
669986	+	IRFZ48N	TO-220AB	N	55	64A	1.39	1.15	.89
256031	+	BS170	TO-92	N	60	0.5A (max.)	*	.10	.08
1217519	FSC	BS170A	TO-92	N	60	0.5A (max.)	*	.091	.086
670071	+	IRFR220N	TO-252AA	N	200	5A	.35	.25	.19
670098	+	IRFP250N	TO-247AC	N	200	30A	1.75	1.35	1.15
670101	+	IRFP260N	TO-247	N	200	50A	3.49	2.55	2.09
871017	FSC	FDN337N	SuperSOT-3	N	30	10A	.39	.35	.29
670135	+	IRFP450	TO-247	N	500	14A	2.49	2.25	1.95
670143	+	IRFP460	TO-247	N	500	20A	2.95	2.75	2.49
209234	+	IRF510	TO-220	N	100	5.6A	.79	.69	.59
209226	+	IRF520	TO-220	N	100	10A	.89	.79	.69
209058	+	IRL520N	TO-220	N	100	10A	.65	.55	.45
210500	+	IRF530	TO-220	N	100	14A	.79	.69	.59
670151	+	IRF530N	TO-220AB	N	100	17A	1.19	.99	.75
670160	+	IRL530N	TO-220AB	N	100	17A	.89	.79	.69
210518	+	IRF540	TO-220	N	100	27A	.89	.79	.69
670178	+	IRF540NS	D2PAK	N	100	33A	.49	.39	.29
670194	+	IRL540N	TO-220AB	N	100	30A	1.39	1.09	.95
210526	+	IRF620	TO-220	N	200	6.0A	.45	.39	.35
210534	+	IRF630	TO-220	N	200	9.0A	.45	.39	.35
210542	+	IRF640	TO-220	N	200	18A	1.09	.99	.79
670223	+	IRF640NS	D2PAK	N	200	18A	.45	.35	.29
670231	+	IRF644	TO-220AB	N	250	14A	.79	.69	.59
210551	+	IRF730	TO-220	N	400	5.5A	.75	.65	.55
210569	+	IRF740	TO-220	N	400	10A	.65	.55	.45
210577	+	IRF820	TO-220	N	500	4.0A	.59	.49	.45
210585	+	IRF830	TO-220	N	500	4.5A	.55	.45	.39
184719	+	IRF840	TO-220	N	500	8.0A	.85	.75	.65
787798	FSC	RFP12N10L	TO-220AB	N	100	12A	.99	.89	.79
670282	+	IRF1405	TO-220AB	N	55	169A	2.45	2.15	1.95
279460	+	VN2222LL	TO-92	N	60	0.75A	.35	.29	.25
874875	FSC	NDT3055L	SOT-223	N	60	10A	.49	.39	.35
618089	+	IRF3205	TO-220	N	55	110A	1.75	1.45	1.25
1559640	INR	IRF3205PBF	TO-220	N	55	110A	1.95	1.55	1.29
670354	+	IRF3415	TO-220AB	N	150	43A	1.75	1.55	1.35
670371	+	IRFPS37N50A	Super-247	N	500	36A	6.95	5.95	5.25
255038	+	SI4420DY	SOIC-8	N	30	30A	.69	.59	.49
785590	FSC	FQP50N06	TO-220	N	60	—	.99	.89	.75
875051	FSC	RFP50N06	TO-220AB	N	60	50A	1.25	1.09	.95
119423	+	2N7000	TO-92	N	60	0.3A	*	.07	.05

\*10 pcs. in Transistor cabinet kit, pg 18

## N-Channel & P-Channel MOSFETs (Continued)

\*Web Code: GCJ

Part No.	*Mfr.	Product No.	Pkg.	Channel	BV <sub>DS</sub>	Min. On-St. DS Current	* Order in multiples of 10		
							1	10	100
178669	FSC	2N7000*	TO-92	N	60	0.2A	*	\$ .08	\$ .06
783594	FSC	2N7000	TO-92	N	60	0.75A	*	.09	.07
140169	+	2N7002	SOT-23	N	60	0.5A	*	.07	.05
670397	+	IRF7401	SOIC-8	N	20	10A	.39	.35	.25
256057	+	BS250	TO-92	P	-45	0.25A (max.)	.75	.65	.55
871113	FSC	FDV304P	SOT-23	P	-25	-1A†	*	.09	.07
1944901	+	ZVP3306A	TO-92	P	-60	-0.4A†	.39	.29	.25
870971	FSC	FDC640P	Super SOT-6	P	-20	-20A	*	.15	.12
670442	+	IRF4905	TO-220AB	P	-55	-74A	1.95	1.75	1.49
1559851	INR	IRF4905PBF	TO-220AB	P	-55	-74A	1.75	1.55	1.45
670477	+	IRF5210	TO-220AB	P	-100	-40A	1.95	1.75	1.39
670485	+	IRF5305	TO-220AB	P	-55	-31A	.99	.89	.79
670531	+	IRF7404	SOIC-8	P	-20	-7.7A	*	.15	.12
670549	+	IRF7416	SOIC-8	P	-30	-10A	.35	.25	.19
670581	+	IRF9Z34N	TO-220AB	P	-55	-1.8A	1.09	.99	.75
670629	+	IRF9520	TO-220AB	P	-100	6A	.65	.55	.45
670741	+	IRF9530	TO-220AB	P	-100	-12A	1.15	1.05	.95
670637	+	IRF9530N	TO-220AB	P	-100	-14A	1.25	1.05	.85
670645	+	IRF9540N	TO-220AB	P	-100	-23A	1.49	1.19	.95
670653	+	IRF9640	TO-220AB	P	-200	-11A	1.15	.95	.85
255089	+	SI4963DY	SOIC-8	Dual P	20	-20A	.69	.59	.49
670661	+	IRF7103	SOIC-8	Dual N	50	3A	.29	.25	.19
670670	+	IRF7303	SOIC-8	Dual N	30	5.3A	*	.19	.15

† DMOS FET

## Hexfet Power MOSFETs

\*Web Code: HDU

Part No.	Mfr.	Part No.	Pkg.	Channel	BV <sub>DS</sub>	Min. On-St. DS Current	* Order in multiples of 10		
							1	10	100
1563147		IRFZ44NPBF	TO-220AB	N	55	49A	\$1.35	\$1.15	\$ .95
1951334		IRF530NS	D2-PAK	N	100	17A	.29	.25	.19
1560051		IRF540NPBF	TO-220AB	N	100	33A	1.45	1.15	.85
1563690		IRL5203TRPBF	Micro-3	P	-30	-3A	*	.15	.12
1559965		IRF5305PBF	TO-220AB	P	-55	-31A	1.05	.95	.85
1561619		IRF9640PBF	TO-220AB	P	-400	-11A	1.35	1.19	1.05

## Zener Diodes

\*Web Code: LAF

Part No.	*Mfr.	Product No.	Pkg.	V <sub>Znom</sub>	Pwr Dissipation	* Order in multiples of 10		
						1	10	100
36290	+	1N751A	DO-35	5.1V	0.5W	*	\$ .07	\$ .05
178773	VSH	1N4732A	DO-41	4.7V	1W	*	.07	.05
36097	+	1N4733A*	DO-41	5.1V	1W	*	.06	.05
36118	+	1N4734A	DO-41	5.6V	1W	*	.06	.05
36126	+	1N4735A	DO-41	6.2V	1W	*	.06	.05
178837	+	1N4739A	DO-41	9.1V	1W	*	.06	.05
36169	+	1N4742A*	DO-41	12V	1W	*	.05	.04
36185	+	1N4744A	DO-41	15V	1W	*	.07	.05
782911	FSC	1N4748ATR	DO-41	22V	1W	*	.05	.03
782922	FSC	1N4749ATR	DO-41	24V	1W	*	.04	.02
743488	FSC	1N5226B	DO-35	3.3V	0.5W	*	.05	.03
179039	+	1N5230B	DO-35	4.7V	0.5W	*	.05	.04
179047	+	1N5231B	DO-35	5.1V	0.5W	*	.06	.04
743541	+	1N5237B	DO-35	8.2V	0.5W	*	.05	.04
179135	+	1N5250B	DO-35	20V	0.5W	*	.05	.03
804818	ON	1N5352BG	Surmetic-40	15V	5W	.35	.29	.25
804914	ON	1N5359BG	Surmetic-40	24V	5W	.29	.25	.22

\*10 pcs. in Diode/Rectifier cabinet kit, pg 20

\* FSC = Fairchild Semiconductor | INR = International Rectifier | ON = ON Semiconductor | VSH = Vishay | + Manufacturer Varies

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## Diodes

\*Web Code: PAK

* Order in multiples of 10									
Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100	1000	
1559164	INR	HFA08TB60PBF	TO-220AC	600VBR, 8A (Ultrafast)	\$1.09	\$ .99	\$ .89		
915323	NXP	BAS40-04T/R	SOT-23	40V <sub>R</sub> , 120mA (Schottky)	*	.05	.03		
915972	NXP	BAV99ST/R	SOT-363	85V <sub>RRM</sub> , 0.5A (Switching)	*	.07	.05		
35941	♦	1N270*	DO-7	80PRV (Germanium)	.99	.89	.79		
1538865	DDI	B340A-13F	SMA	40V <sub>RRM</sub> , 3A (Schottky)	*	.15	.12		
313402	♦	MMBD914	SOT-23	100V <sub>RRM</sub> , 0.2A (Switching)	*	.04	.02		
312101	♦	MBR1100	DO-41	100PRV, 1.0A (Schottky)	.25	.22	.19		
1556650	AVT	HSMS-2802-BLK	SOT-23	RF schottky barrier series, 70V	.39	.29	.25		
1556879	AVT	HSMS-2825-BLK	SOT-143	RF schottky barrier series, 15V	.45	.35	.29		
1585240	AVT	HSMS-2860-BLK	SOT-23	Forward voltage 350mV	.45	.39	.35		
743285	FSC	1N4148	DO-35	75PRV, 0.01A (Switching)	*	.06	.03		
36038	♦	1N4148**	DO-35	75PRV, 0.01A (Switching)	*	.05	.02		
151247	♦	1N4148T	DO-35	75PRV, 0.01A (tape/reel)	*	.05	.01		
179215	VSH	1N4148	DO-35	100PRV (Switching)	*	.05	.02		
743710	ST	1N6263	DO-35	60V <sub>RRM</sub> , 50mA (Schottky)	*	.15	.09		
1558946	INR	80SQ045	DO-204	40V <sub>RRM</sub> , 8A (Schottky)	1.39	1.29	1.09		

\* 10 pcs./ \*\* 100 pcs. in Diode/Rectifier cabinet kit, below right

## Small Signal Diodes

\*Web Code: JDQ

Order in multiples of 10									
Part No.	*Mfr.	Product No.	Pkg.	Description	10	100	1000		
655613	♦	BAY73	DO-35	125V <sub>RRM</sub> , 0.5A	\$.02	\$ .01	\$ .009		
36311	♦	1N914**	DO-35	75PRV, 0.01A	.05	.02	.015		
179207	VSH	1N914	DO-35	100PRV	.05	.02	.015		
655269	♦	1N914A	DO-35	100V <sub>RRM</sub> , 0.2A	.05	.03	.02		

\*\* 100 pcs. in Diode/Rectifier cabinet kit, below right

## Transient Voltage Suppressors

\*Web Code: QBO

* Order in multiples of 10									
Part No.	Product No.	Watt	Pkg.	Min. Brkdw Volt. (V <sub>BR</sub> )	Stand-Off Voltage	1	10	100	
255847	P6KE24CA	600	DO-15	22.8	20.5	*	\$ .12	\$ .09	
255741	P6KE39CA	600	DO-15	37.1	33.3	*	.09	.07	
255951	P6K150CA	600	DO-15	143.0	128	*	.09	.07	
255839	P6K250CA	600	DO-15	237.0	214	*	.12	.09	
313234	SMCJ10CA	1500	DO-214AB	11.1	10	.29	.25	.19	
313082	SMCJ58CA	1500	DO-214AB	64.4	58	.29	.25	.19	
618118	1N5908	1500	DO-41	6.0	—	*	.15	.12	

## Triacs

\*Web Code: PAE

* Order in multiples of 10									
Part No.	*Mfr.	Product No.	Pkg.	Rating	1	10	100		
160098	♦	HT-32	DO-35	27.37 V <sub>BO</sub> , 2A	\$ .35	\$ .29	\$ .25		
31819	♦	SC146B	TO-220	200 V <sub>DRM</sub> , 10A (2N6342)	1.49	1.35	1.19		
31827	♦	SC146M	TO-220	600 V <sub>DRM</sub> , 10A (2N6344)	1.95	1.75	1.49		
1165690	BNS	TIC201M	TO-220	600 V <sub>DRM</sub> , 2.5A	.49	.39	.25		
160207	TEC	Q4008L4	TO-220AB	400 V <sub>DRM</sub> , 8A	1.19	1.09	.89		
220492	TEC	Q4008R4	TO-220AB	400 V <sub>DRM</sub> , 8A	.89	.79	.69		
139336	TEC	Q4015L5	TO-220AB	400 V <sub>DRM</sub> , 15A	1.29	1.19	1.09		
160215	TEC	Q6008L5	TO-220AB	600 V <sub>DRM</sub> , 8A	1.09	.99	.89		
160231	TEC	Q6015L5	TO-220AB	600 V <sub>DRM</sub> , 15A	1.75	1.49	1.35		
220505	TEC	Q6025R6	TO-220AB	600 V <sub>DRM</sub> , 25A	1.75	1.55	1.35		
220521	TEC	Q6035P5	TO-3	600 V <sub>DRM</sub> , 35A	8.95	7.95	6.95		
140425	♦	2N6071A	TO-225AA	200 V <sub>DRM</sub> , 4A	.59	.55	.45		

## SanRex® Fast-On Package Triac

\*Web Code: PCH

Part No.	Mfr.	Part No.†	Pkg.	Rating (X <sub>DRM</sub> , I <sub>T(RMS)</sub> )	1	10	100
658275	TG	35F60	Fast-On	Isolated 35A, 600V	\$8.95	\$7.95	\$6.95

† For cross-references to Littelfuse, ST, and ON Semi products refer to datasheets @ Jameco.com.

## Rectifiers

\*Web Code: LBD

* Order in multiples of 10													
Part No.	*Mfr.	Product No.	Pkg.	Rating	1	10	100	1000					
177754	TAT	T6A05L	T6L	50 PIV, 6A	\$ .39	\$ .35	\$ .29	\$ .25					
177762	TAT	T6A10L	T6L	100 PIV, 6A	.49	.45	.39	.35					
177818	TAT	T6A100L	T6L	1000 PIV, 6A	.69	.59	.49	.45					
879991	ON	MURS140T3	SMB	400 @ 1A (Ultrafast)	*	.09	.08	.07					
2126011	DDI	SR506-T	DO-201AD	60 PRV, 5A (Schottky)	.39	.35	.29	.25					
1645097	GI	1N645-1	DO-35	225 PRV, .15A	*	.09	.07	.05					
618100	♦	MBR745	TO-220	35V <sub>RRM</sub> , 7.5A	*	.19	.15	.12					
35924	♦	1N1188	DO-5	400 PRV, 35A	4.25	3.75	3.35	3.15					
618097	♦	MBR2535CT	TO-220	35 VRPM, 30A	.29	.25	.19	.17					
35975	♦	1N4001*	DO-41	50 PRV, 1A	*	.05	.02	.015					
1537862	DDI	1N4001G-T	DO-41	50V <sub>RRM</sub> , 1A	*	.04	.03	.025					
76961	♦	1N4002	DO-41	100 PRV, 1A	*	.05	.02	.015					
76962	♦	1N4002	DO-41	100 PRV, 1A	*	.06	.03	.025					
1537889	DDI	1N4002-T	DO-41	100 V <sub>RRM</sub> , 1A	*	.06	.04	.02					
76970	♦	1N4003	DO-41	200 PRV, 1A	*	.05	.02	.015					
35991	♦	1N4004**	DO-41	400 PRV, 1A	*	.05	.02	.015					
879094	ON	MRA4004T3	SMA	400 @ 1A	*	.07	.05	.04					
76988	♦	1N4005	DO-41	600 PRV, 1A	*	.05	.03	.02					
76996	♦	1N4006	DO-41	800 PRV, 1A	*	.05	.02	.015					
36011	♦	1N4007*	DO-41	1000 PRV, 1A	*	.05	.02	.015					
36012	♦	1N4007	DO-41	1000 PRV, 1A	*	.05	.02	.015					
1537951	DDI	1N4007-T	DO-41	1000 V <sub>RRM</sub> , 1A	*	.06	.05	.03					
36249	♦	1N5401	DO-201AD	100 PIV, 3A	*	.12	.10	.08					
77083	♦	1N5402	DO-27A	200 PRV, 3A	*	.12	.10	.08					
36265	♦	1N5404*	DO-27A	400 PRV, 3A	*	.12	.10	.08					
36273	♦	1N5408*	DO-27A	1000 PRV, 3A	*	.12	.10	.08					
36274	♦	1N5408	DO-27A	1000 PRV, 3A	*	.13	.11	.09					
177949	♦	1N5817	DO-204AL	20 PIV, 1A	*	.14	.12	.10					
177957	♦	1N5818	DO-204AL	30 PIV, 1A	*	.14	.12	.10					
177965	♦	1N5819	DO-204AL	40 PIV, 1A	*	.14	.12	.10					
1538419	DDI	1N5819HW-7-F	SOD-123	40 V <sub>RRM</sub> , 1A (Schottky)	*	.09	.07	.05					
177973	♦	1N5820	DO-201AD	20 PIV, 3A	*	.09	.07	.05					
177981	♦	1N5821	DO-201AD	30 PIV, 3A	*	.14	.12	.10					
177990	♦	1N5822	DO-201AD	40 PIV, 3A	*	.16	.14	.12					
2126310	ST	BYW80-50	TO-220AC	50 PIV, 8A	.69	.59	.39	.29					

\* 10 pcs./ \*\* 100 pcs. in Diode/Rectifier cabinet kit, below

## Silicon Controlled Rectifiers (SCRs)

\*Web Code: BAB

* Order in multiples of 10													
Part No.	*Mfr.	Product No.	Pkg.	Rating	1	10	100						
14859	♦	C38M	TO-65	600 PRV, 35A (2N3899)	\$6.95	\$6.25	\$5.49						
14736	♦	C106B1*	TO-202	200 PRV, 4A (2N6239)†	.69	.59	.49						
14752	♦	C122B	TO-220	200 PRV, 8A	1.29	1.19	.95						
14761	♦	C122M	TO-220	600 PRV, 8A	1.35	1.25	1.05						
160119	♦	T106D1	TO-202AB	400 PRV, 4A	.59	.49	.45						
119802	♦	2N5060	TO-92	25 PRV, 0.8A	.29	.25	.19						
211422	♦	2N5061	TO-92	60 PRV, 0.8A	*	.19	.15						
160135	TEC	S6025L	TO-220AB	600 V <sub>DRM</sub> , 25A	1.49	1.39	1.29						
140417	♦	2N6507	TO-220AB	400 PRV, 25A	1.19	1.09	.95						
885654	ON	2N6509	TO-220AB	800 V <sub>DRM</sub> , 25A	1.29	1.15	.95						

† Isolated \* 10 pcs. in Diode/Rectifier cabinet kit, below

## Diode/Rectifier Assortment Cabinet Kit

420 pcs. (15 types) Diodes, Zener Diodes, Switching and Silicon Rectifiers

Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 163 and 30 adhesive labels for drawers to identify parts in kit.

10 each: 1N270, 1N751A, 1N4001, 1N4007, 1N4150, 1N4733A, 1N4735A, 1N4742A, 1N5404, 1N5408, C106B1, KBP04M  
100 each: 1N914, 1N4004, 1N4148



Part No.	Description	Wt. (lbs.)	1	5
82587	420 pcs. (15 types) diode kit	5.0	\$39.95	\$34.95
130366	Refill for 82587 (420 pcs.)	0.3	29.95	26.95

\* AVT = Avago | BNS = Bourns | FSC = Fairchild | DDI = Diodes Inc. | GI = General Instru. | INR = International Rectifier | NXP = NXP/Philips | ON = ON Semi | ST = ST Micro | TAT = Taitron | TEC = Teccor | VSH = Vishay

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.





## Bridge Rectifiers

★ Web Code: MBD

* Order in multiples of 10									
Part No.	*Mfr.	Product No.	Pkg. <sup>†</sup>	Rating	1	10	100		
1540421	◆	HD04-T	Mini DIP-4	400 V <sub>RRM</sub> , 0.8A	.....	.....	.....	\$ .15	\$ .12
178001	◆	DF005M	DF	50 V <sub>RRM</sub> , 1A	.....	.29	.25	.22	
103000	◆	DF01M	DF	100 V <sub>RRM</sub> , 1A	.....	.29	.25	.22	
103042	◆	DF02M	DF	200 V <sub>RRM</sub> , 1A	.....	.29	.25	.22	
102971	◆	DF04M	DF	400 V <sub>RRM</sub> , 1A	.....	.35	.29	.25	
103034	◆	DF06M	DF	600 V <sub>RRM</sub> , 1A	.....	.29	.25	.22	
256575	◆	DF08M	DF	800 V <sub>RRM</sub> , 1.5A	.....	.35	.29	.25	
103026	◆	DF10M	DF	1000 V <sub>RRM</sub> , 1A	.....	.35	.29	.25	
145429	◆	KBP02M	KBP	200 V <sub>RRM</sub> , 1.5A	.....	.35	.29	.25	
119562	◆	KBP04M*	KBP	400 V <sub>RRM</sub> , 1.5A	.....	.39	.35	.29	
103018	◆	W02G	WOG	200 V <sub>RRM</sub> , 1.5A	.....	.35	.29	.25	
102980	◆	W04G	WOG	400 V <sub>RRM</sub> , 1.5A	.....	.35	.29	.25	
179469	◆	W08G	WOG	800 V <sub>RRM</sub> , 1.5A	.....	.35	.29	.25	
178132	◆	W01M	WOM	100 V <sub>RRM</sub> , 1.5A	.....	.25	.22	.19	
178141	◆	W02M	WOM	200 V <sub>RRM</sub> , 1.5A	.....	.25	.22	.19	
178183	TAT	BR805D	BR8D	50 PIV, 2A	.....	.49	.45	.39	
253260	◆	2KBP06M	KBP	600 V <sub>RRM</sub> , 2A	.....	.45	.35	.29	
253286	◆	2KBP10M	KBP	1000 V <sub>RRM</sub> , 2A	.....	.49	.39	.35	
1541466	DDI	RS405L	RS-4L	600 V <sub>RRM</sub> , 4A	.....	.89	.79	.69	
1545416	◆	KBU8B	KBU	100 V <sub>RRM</sub> , 8A	.....	.99	.89	.79	
2126133	◆	SBU8J	SBU	600 V <sub>RRM</sub> , 8A	.....	1.49	1.25	1.09	
299874	◆	GBPC1206	GBPC	600 V <sub>RRM</sub> , 12A	.....	2.49	2.25	1.95	
299866	◆	GBPC1206W	GBPC-W	600 V <sub>RRM</sub> , 12A	.....	1.75	1.45	1.25	
179477	◆	GBPC25-01	GBPC	100 V <sub>RRM</sub> , 25A	.....	1.95	1.49	1.25	
179485	◆	GBPC25-02	GBPC	200 V <sub>RRM</sub> , 25A	.....	1.95	1.49	1.25	
178280	◆	MB254	MB35	400 V <sub>RRM</sub> , 25A	.....	2.75	2.49	2.25	
178431	◆	MB358	MB35	800 V <sub>RRM</sub> , 35A	.....	2.95	2.75	2.49	
25574	◆	MDA990-3	179-01	200 PIV, 30A	.....	3.75	3.49	3.25	
25591	◆	MDA990-6	179-01	600 PIV, 30A	.....	3.95	3.75	3.49	
178503	TAT	TB3510	TB35	1000 PIV, 35A	.....	3.49	3.25	2.95	

\*10 pcs. in Diode/Rectifier cabinet kit, pg 20

† DF/KBP/WOG/WOM/179-01 – plastic case; GBPC/TB35 – plastic case, metal base; MB35 – metal case

## Heat Sink Compounds

★ Web Code: YBA



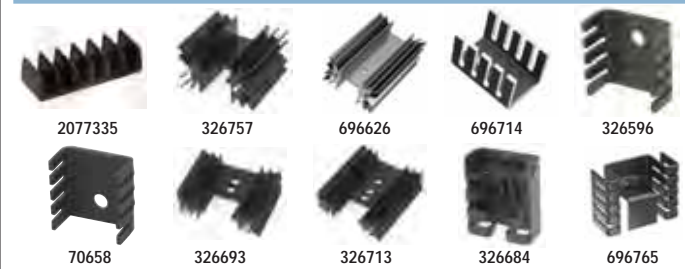
Part No.	*Mfr.	Product No.	Description	1	10	100
169252	TSP	1978DP	Silicon free compound 4 oz. tube	\$23.95	\$21.95	\$20.95
615304	GCE	10-8106	Zinc-oxide filled silicon compound 1 lb. can	29.95	26.95	23.95
615312	GCE	10-8108	Zinc-oxide filled silicon compound 6.5g tube	2.95	2.65	2.39
615321	GCE	10-8109	Zinc-oxide filled silicon compound 1 oz. tube	7.95	7.25	6.55
167249	AVD	THM250	Silicon based compound 2 oz. tube	8.95	7.95	6.95
236823	JVP	54114	Silicon based compound 1 oz. tube	4.95	4.49	3.95

See page 171 for CPU Heat Sinks with Fan.



## Heat Sinks

★ Web Code: JAB



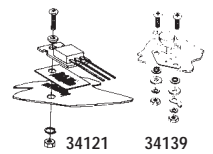
- Material: black anodized aluminum (except for P/N 107297 – light weight alum.)
- P/N 42622 can be mounted vertically with solderable mounting tabs

Part No.	*Mfr.	Product No.	Type	Hole	Size (L" x W" x H")	1	10	100
2077335	AVD	501200B00	DIP-14/16	0	0.73 x 0.25 x 0.19	\$ .49	\$ .45	\$ .39
151547	JVP	635-125B2	TO-3	4	1.83 x 1.40 x 1.25	1.49	1.39	1.25
189835	AVD	501303B00000G	TO-3	4	1.90 x 1.40 x 0.50	.89	.79	.69
16513	JVP	DUDE4	TO-3	4	4.75 x 1.50 x 1.25	3.75	3.25	2.75
326757	JVP	529801B02500	TO-218	3	1.64 x 1.00 x 1.50	1.25	1.09	.95
696626	AVD	530002B02500	TO-220	1	2.52 x 1.65 x 1.00	1.95	1.75	1.39
696714	AVD	577002B00000G	TO-220	1	0.52 x 0.25 x 0.75	.29	.25	.22
158051	AVD	577102B00000G	TO-220	1	0.52 x 0.36 x 0.75	.29	.25	.22
696722	AVD	581002B02500G	TO-220	1	0.64 x 0.64 x 1.00	1.49	1.39	1.29
326596	JVP	507302B00000	TO-220	1	0.75 x 0.38 x 0.75	.29	.25	.22
70658	JVP	THM6073	TO-220	1	0.75 x 0.36 x 0.75	.29	.25	.22
40504	WKF	291-H-36AB	TO-220	1	1.00 x 0.36 x 0.86	.85	.75	.65
107297	◆	PSC2-U (cup-style)	TO-220	0	1.00 x 0.42 x 0.80	.49	.45	.35
42622	AVD	563002B00000G	TO-220	1	1.18 x 1.00 x 0.50	.35	.29	.25
129242	JVP	THM6106	TO-220	1	1.18 x 1.00 x 0.50	.65	.55	.45
70915	JVP	THM6106	TO-220	2	1.18 x 1.00 x 0.50	.69	.59	.49
326693	JVP	531002B05200	TO-220	2	1.38 x 0.50 x 1.00	.99	.89	.79
326713	JVP	531102B02500	TO-220	3	1.38 x 0.50 x 1.50	.99	.89	.79
326765	JVP	531302B02500	TO-220/202	3	2.50 x 1.38 x 0.50	1.25	1.09	.89
2033463	AVD	573300D00010G	TO-263	0	1.03 x 0.50 x 0.40	.69	.59	.49
1115310	AVD	576802B03100G	TO-220	0	0.75 x 0.50 x 0.52	.39	.29	.25
1115643	AVD	577202B00000G	TO-220	1	0.52 x 0.50 x 0.75	.35	.29	.25
1116460	AVD	7128DG	TO-220	0	0.86 x 0.38 x 1.18	.59	.49	.45
326684	JVP	566010B03400	TO-218	0	1.00 x 0.50 x 1.22	.49	.29	.25
2028162	AVD	7173DG	TO-220	1	0.75 x 0.75 x 0.38	.39	.29	.25
696765	AVD	7109DG	TO-263	0	0.76 x 1.00 x 0.45	.79	.65	.55
2033009	AVD	7136DG	TO-220	0	0.52 x 0.52 x 0.85	.59	.49	.45

## Heat Sink Mounting Kits

- TO-3 and TO-220 heat sink insulator assemblies
- 10 kits per pack

Part No.	Type	Description	1	10	100
34121	TO-220	5 pcs per kit	\$3.95	\$3.59	\$3.25
34139	TO-3	12 pcs per kit	3.95	3.59	3.25



## Centrifugal Force Switch

- Contact rating: 0.4VA (max.) @ 20VAC or 20VDC
- Normally open (NO)
- Triggers @ 1.5g (min.) to 5g
- Dielectric strength: 500VDC min. for 1 min.
- Insulation resistance: 1000MΩ (min.)
- Life: 100,000 cycles (typical)
- Applications: rotational devices, tire centrifugal force detection, direction or axis motion, motion control

NEW  
MARKED IN PINK



Part No.	Product No.	Description	1	10	100
2126563	RV-RUG-00-000-BB	Centrifugal force switch	\$1.95	\$1.75	\$1.49

\* AVD = Aavid Thermalloy | DDI = Diodes Inc. | GCE = GC Electric | JVP = ValuePro | TAT = Taitron | TSP = Tech Spray | WKF = Wakefield | ◆ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Optoisolators, Optocouplers & Standard-Output LEDs

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE



## Optoisolators

\*Web Code: CAG

* Order in multiples of 10									
Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100		
40985	◆	4N25	DIP-6	NPN phototransistor output	\$.25	\$.22	\$.19		
41005	◆	4N26	DIP-6	NPN phototransistor output	.25	.22	.19		
41013	◆	4N28	DIP-6	NPN phototransistor output	.25	.22	.19		
41021	◆	4N32	DIP-6	NPN photodarlington output	.25	.22	.19		
41030	◆	4N33	DIP-6	NPN photodarlington output	.25	.22	.19		
41056	◆	4N35	DIP-6	NPN phototransistor output	.25	.22	.19		
671832	◆	4N35S	SOIC-6	General purpose phototransistor	*.09	.07			
1872628	OPT	OPB606A	DIP-4	NPN phototransistor	1.75	1.49	1.25		
1872759	OPT	OPB704WZ	4-wire	NPN phototransistor	4.35	4.25	3.79		
1628828	INF	ILQ74	DIP-16	Quad-channel phototransistor	2.25	1.95	1.75		
2099948	OPT	OPI2151	DIP-6	Single NPN phototransistor	*.09	.07			
320653	◆	PS2501-1	DIP-4	Single NPN phototransistor output	.35	.29	.25		
320661	◆	PS2501-2	DIP-8	Dual NPN phototransistor output	1.19	1.09	.95		
160338	◆	PS2501-4	DIP-16	Quad NPN phototransistor output	1.65	1.39	1.19		
320688	◆	PS2502-1	DIP-4	Darlington photocoupler	.65	.55	.49		
320696	◆	PS2502-2	DIP-8	Dual NPN photodarlington output	1.95	1.75	1.49		
160362	◆	PS2502-4	DIP-16	Quad NPN photodarlington output	2.49	2.25	1.95		
320717	◆	PS2505-2	DIP-8	High isolation volt. photocoupler	1.49	1.29	1.09		
320725	◆	PS2505-4	DIP-16	Quad NPN phototransistor output	2.25	1.95	1.25		
320805	◆	PS2532-4	DIP-16	Quad hi collector to emitter voltage	2.95	2.75	2.49		
26278	◆	MOC3010	DIP-6	Bilateral sw. non-zero crossing triac	.49	.39	.35		
95020	◆	MOC3011	DIP-6	Random phase, triac driver output	.45	.39	.35		
277780	◆	MOC3020	DIP-6	Bilateral sw. non-zero crossing triac	.49	.45	.39		
95038	◆	MOC3021	DIP-6	Random phase, triac driver output	.55	.49	.45		
277819	◆	MOC3023	DIP-6	Random phase, triac driver output	.49	.45	.39		
113953	◆	MOC3032	DIP-6	Zero-crossing, triac driver output	.69	.59	.49		
277835	◆	MOC3041	DIP-6	Zero-crossing, triac driver output	.79	.69	.59		
277843	◆	MOC3043	DIP-6	Zero-crossing, triac driver output	.89	.79	.69		
133874	◆	MOC3063	DIP-6	Zero-crossing, triac driver output	.75	.65	.55		
320629	◆	MOC3082	DIP-6	Zero-crossing, triac driver output	.59	.45	.39		
2006414	LTO	LTR-5986D	SIP-3	NPN phototransistor/detector	.25	.22	.15		



## Optical Tilt Switches

Part No.	Product No.*	Pkg.	Description	1	10	100
2126521	RP-CUB-30-000-NB	4-pin	Optical tilt, 30°, 5mA (Ic)	\$1.95	\$1.75	\$1.49
2126555	RP-RUB-15-000-NB	4-pin	Optical tilt, 15°, 5mA (Ic)	1.95	1.75	1.49
2126547	RP-RUB-30-000-NB	4-pin	Optical tilt, 30°, 5mA (Ic)	1.95	1.75	1.49
2126539	RP-RUB-45-000-NB	4-pin	Optical tilt, 45°, 5mA (Ic)	1.95	1.75	1.49

\*CUB = horizontal mount PCB; RUB = vertical mount PCB

\*Subminiature LEDs Available Online — Enter Web Code SML

## Standard-Output LEDs

* Order in multiples of 10																		
Part No.	Product No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter Inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing			
								A"	B"						1	10	100	1000
26745	MCDL-170EC	MCD	1	Red	Water clear	T ¾	0.065/1.7	0.06	0.35	—	2.0	7	635	100	\$ .39	\$ .35	\$ .29	\$ .25
1869437	MPG22625S	STA	1	Green	Green diffused	T ¾	0.065/1.7	0.06	0.35	—	2.1	16	567	60	.39	.35	.29	.25
202471	MVL-301HR**	UNI	2	Red	Red diffused	T1	0.119/3	0.14	1.12	0.10	2.0	9.0	640	40	*	.10	.08	.06
253278	HLMP-1301	FSC	2	Red	Red diffused	T1	0.119/3	0.19	1.00	0.10	1.9	5.4	635	60	*	.11	.09	.07
152785	LT0341R-41	LED	2	Red	Red diffused	T1	0.119/3	0.20	0.89	0.10	2.1	15.5	635	56	*	.12	.10	.08
333851	UT6371-41-M1	JVP	2	Red	Red diffused	T1	0.119/3	0.17	0.98	0.10	1.7	63	660	47	*	.12	.10	.08
94529	LH2040	JVP	2	Red	Red diffused (XC209RB)	T1	0.119/3	0.18	1.04	0.07	2.3	4.5	697	36	*	.12	.10	.08
136282	LA44B/21	JVP	3	Red	Red diffused (right angle) .60" LDS	T1	0.119/3	0.38	0.17	0.10	1.7	12	635	50	.35	.29	.25	.19
1554099	HLMP-1700-B0002	AVT	2	Red	Red tinted/diffused	T1	0.119/3	0.19	0.95	0.10	1.7	0.8	635	50	*	.15	.12	.09
1554110	HLMP-1700-B00A2	AVT	4	Red	Red tinted/difused (right angle)	T1	0.119/3	0.19	0.95	0.10	1.7	0.8	635	50	.39	.32	.25	.22
152751	LT0344R-41	LED	2	Red	Red clear	T1	0.119/3	0.20	0.89	0.10	2.1	52.9	635	36	*	.12	.10	.08
2081991	XLUR40W	◆	5	Red	Water clear	T1	0.119/3	0.197	1.063	0.10	1.9	59	627	50	*	.10	.08	.06
333171	HLMP-K155-JV	JVP	5	Red	Red clear	T1	0.119/3	0.19	1.04	0.10	1.6	3.0	660	45	*	.12	.10	.08
333260	LHR2643	JVP	2	Red	Water clear	T1	0.119/3	0.13	0.98	0.10	1.5	300	660	40	*	.12	.10	.08

\*10 pcs./\*\*100 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 27

\*AVT = Avago | CLA = Clare | FSC = Fairchild | INF = Infineon | ISO = Isocom | JVP = ValuePro | LED = Ledtech | LTO = Lite On | MCD = MCD Elec. | NTE = NTE Elec. | OPT = Optek | SIE = Siemens | STA = Stanley | UNI = Unity Opto

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

## Optocouplers

\*Web Code: NAK

* Order in multiples of 10									
Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100		
277510	◆	6N135	DIP-8	Hi-speed photodetector transistor	\$.75	\$.65	\$.55		
42471	◆	6N136	DIP-8	Hi-speed phototransistor output	.65	.55	.45		
113911	◆	6N137	DIP-8	Hi CMR, hi-speed logic gate output	.69	.59	.49		
42489	◆	6N138	DIP-8	Hi-speed photodarlington output	.69	.59	.49		
113929	◆	6N139	DIP-8	Hi-speed photodarlington output	.35	.25	.19		
18825	◆	H11AA1	DIP-6	AC input phototransistor	.59	.49	.45		
320434	◆	H11AA2	DIP-6	AC input phototransistor optocoupler	.59	.49	.35		
320451	◆	H11AA4	DIP-6	AC input phototransistor optocoupler	.69	.59	.49		
938365	FSC	H11AA4SVM	DIP-6	AC input phototransistor (w/ SMD)	.29	.25	.19		
113988	◆	H11L1	DIP-6	μPROC compatible Schmitt trigger	.79	.69	.59		
871341	FSC	H11L1M	DIP-6	Logic output	.85	.75	.65		
1549441	AVT	HCPL-060L-000E	SOIC-8	Hi-speed LVTTTL compatible 3.3V opto	1.25	1.05	.85		
1549644	AVT	HCPL-063N	SOIC-8	Dual ch. high CMR, 10MBd, HCMOS compat.	3.75	3.49	2.95		
1549530	AVT	HCPL-0630-000E	SOIC-8	Dual ch. high CMR, hi-spd TTL compat. opto.	2.49	2.25	1.95		
1549732	AVT	HCPL-0710	SOIC-8	40ns propagation delay, CMOS	2.75	2.49	2.25		
1549741	AVT	HCPL-0710-000E	SOIC-8	40ns propagation delay, CMOS	2.75	2.49	2.25		
1549839	AVT	HCPL-0731	SOIC-8	Dual ch. low input current, high gain	2.25	1.95	1.49		
1550047	AVT	HCPL-2232	DIP-8	Dual ch. very high CMR, wide Vcc logic gate	4.95	4.49	3.95		
785821	FSC	HCPL2631S	SOIC-8	Dual ch. high speed 10mbit/s logic gate	1.25	.95	.75		
1584221	AVT	HCPL-7710-000E	DIP-8	40ns propagation delay, CMOS	2.49	2.25	1.95		
1584239	AVT	HCPL-7710-300E	DIP-8	40ns propagation delay, CMOS	2.49	2.25	1.95		
1584247	AVT	HCPL-7800-300	SOIC-8	Isolation amplifier optocoupler	4.75	4.25	3.75		
1584255	AVT	HCPL-7800A#300	DIP-8	Isolation amplifier optocoupler	4.95	4.49	3.95		
24918	◆	MCT61	DIP-8	High density NPN phototransistor	.59	.49	.45		
672317	◆	MCT61	DIP-8	Dual channel NPN phototransistor	.35	.25	.19		
672325	◆	MCT62	DIP-8	Dual channel NPN phototransistor	.59	.49	.39		
2006385	LTO	LTV-814H	DIP-4	Phototransistor output, AC input	.25	.22	.19		
1996330	LTO	LTV-824S	SOIC-8	Opto phototransistor	*.15	.12			
878286	LTO	LTV-847	DIP-16	Quad ch. phototransistor output	.79	.69	.59		
1583156	CLA	PD2401	DIP-16	AC solid st. sw. w/ dual pwr SCR output	6.95	5.95	5.49		
1583199	CLA	TS117S	SOIC-8	1-Form-A relay optocoupler	1.49	1.25	.95		
1583228	AVT	5962-8876901PC	DIP-8	2-ch., low I/F, wide Vcc, logic gate...	49.95	44.95	39.95		

\*Web Code: XAP

## Slotted Optical Switches

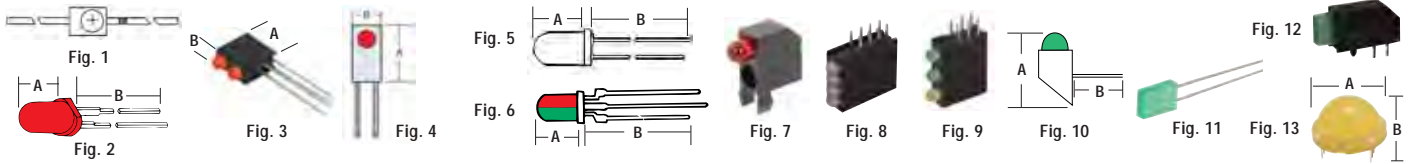
Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
114091	◆	H21A1	4-pin w/ tab	Single channel, 20mA (Ic)	\$2.49	\$2.25	\$1.95
320901	◆	H21A3	4-pin w/ tab	Single channel, 20mA (Ic)	2.49	2.25	1.95
2078282	SIE	IRLA075	4-pin w/ tab	Single channel, 50mA (Ic)	.99	.89	.79
2126301	ISO	ISTS150	8-pin w/ tab	Dual channel, 20mA (Ic)	.89	.79	.59

Figure images on next page

\*Web Code: FAF

\* Order in multiples of 10





## Standard-Output LEDs (Continued)

See page 27 for LED Mounting Hardware

\* Web Code: FAF

\* Order in multiples of 10

Part No.	Product No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle*	Pricing			
								A*	B*						1	10	100	1000
114673	LH2043R *	JVP	2	Red	Water clear (BR209)	T1	0.119/3	0.14	0.98	0.07	2.3	12	697	30	*	\$ .12	\$ .10	\$ .08
206498	LHR2041R	JVP	2	Red	Red transparent	T1	0.119/3	0.17	0.69	0.08	2.0	350	660	30	*	.15	.12	.10
697565	LTL-4211N	LTO	2	Bright Red	Red diffused	T1	0.118/3	0.175	1.00	0.10	2.1	4.4	697	60	*	.12	.10	.08
697590	LTL-4221N	LTO	2	Hi-eff Red	Red diffused	T1	0.118/3	0.175	1.00	0.10	2.0	8.7	635	60	*	.10	.08	.06
2006713	LTL-161CE	LTO	2	Hi-eff Red	Red diffused, flanged	T1	0.118/3	0.21	1.07	0.10	2.0	12.6	621	60	*	.12	.10	.08
2081932	BVL-300ESD	♦	5	OrangeRed	Red diffused	T1	0.119/3	0.17	1.00	0.10	2.1	18	622	45	*	.09	.06	.05
94553	LHG2062	JVP	2	Red/Green	White diffused bi-color/bi-state <sup>1</sup>	T1	0.119/3	0.18	1.00	0.08	2.3	3 & 15	697/565	36	*	.19	.15	.12
1766366	4301F1/5R	CML	5	Red/Green	White diffused bi-color	T1	0.119/3	0.175	1.00	0.10	2.1	13/4	660/565	60	.59	.55	.49	.45
156946	LT0362-25-D61R	LED	6	Red/Green	White diffused bi-color/tri-state	T1	0.119/3	0.16	0.87	0.08	2.1	2.7/13.3	700/567	50	.39	.35	.29	.25
235424	LA45B/21R	JVP	3	Red/Red	Red diffused (right angle)	T1	0.119/3	0.40	0.18	0.10	1.7	12	630	50	.35	.29	.25	.19
235416	LA45B/2G	JVP	7	Green/Green	Green diffused (dual)	T1	0.119/3	0.40	0.18	0.10	1.7	15	565	50	*	.19	.15	.12
156937	LT0331-41	LED	2	Yellow	Yellow diffused	T1	0.119/3	0.20	0.95	0.10	2.1	11	585	56	*	.12	.10	.08
333219	LY12340	JVP	2	Yellow	Yellow diffused	T1	0.119/3	0.13	0.98	0.10	1.7	6.5	585	112	*	.12	.10	.08
697688	LTL-4251N	LTO	5	Yellow	Yellow diffused	T1	0.118/3	0.175	1.00	0.10	2.1	5.6	585	60	*	.12	.10	.08
202489	MVL-301Y	UNI	5	Yellow	Yellow diffused	T1	0.118/3	0.20	1.10	0.10	2.1	9.0	585	40	*	.12	.10	.08
34657	LY2040R *	JVP	2	Yellow	Yellow diffused (XC209Y)	T1	0.119/3	0.16	0.68	0.08	2.3	15	585	36	*	.12	.10	.08
334211	LA16BYR	JVP	4	Yellow	Yellow diffused (right angle)	T1	0.119/3	0.29	0.18	0.10	1.7	12	585	50	*	.10	.08	.06
2006721	LTL-14CDJLDL	LTO	2	Yellow/Green	White diffused bi-color, flanged	T1	0.119/3	0.19	1.35	0.10	2.1	8.7/12.6	585/565	80	*	.19	.15	.12
2125464	VX4SUGY91M	SLD	8	Yellow/Green	White diff. bi-color, quad-level	T1	0.119/3	0.47	0.20	0.10	2.1/2.2	24/6	590/565	130	.99	.89	.79	.65
2125472	PZ11UY2LUG32D	SLD	9	Yellow/Green	Yellow/green diffused, tri-level	T1	0.119/3	0.60	0.17	0.10	1.95/2.0	8/15	590/565	40	.99	.89	.79	.65
2006705	LTL-1CHYE	LTO	2	Yellow	Water clear, flanged	T1	0.119/3	0.21	1.07	0.10	2.1	40	585	45	*	.08	.06	.045
2082003	XLUY40W	♦	5	Yellow	Water clear	T1	0.119/3	0.197	1.063	0.10	1.95	19	590	50	*	.10	.08	.06
206480	LVY2041R	JVP	2	Yellow	Yellow transparent	T1	0.119/3	0.17	0.69	0.08	2.3	450	595	30	*	.12	.10	.08
2006676	LTL-42DINMHDP1R	LTO	3	Green/Yellow	Gr/yel diffused (rt. angle) .13" LDS	T1	0.119/3	0.38	0.17	0.10	2.1	12/6	565/585	60	*	.15	.12	.10
333201	LG12340	JVP	2	Green	Green diffused	T1	0.119/3	0.13	0.98	0.10	1.7	9.6	565	112	*	.12	.10	.08
253631	HLMP-1503	FSC	2	Green	Green diffused	T1	0.119/3	0.19	1.00	0.10	2.1	1.0	565	60	*	.12	.10	.08
156930	LT0321-41-HE	LED	2	Green	Green diffused	T1	0.118/3	0.16	0.88	0.10	2.1	32	567	56	*	.15	.12	.10
211086	LTL-4231N-022R	LTO	5	Green	Green diffused	T1	0.119/3	0.13	1.10	0.10	2.1	12.6	565	40	*	.10	.08	.06
1956602	LTL4231N	LTO	2	Green	Green diffused	T1	0.118/3	0.175	1.00	0.10	2.1	12.6	565	60	*	.10	.08	.06
697637	LTL-4231N	LTO	5	Green	Green diffused	T1	0.118/3	0.175	1.00	0.10	2.1	12.6	565	60	*	.12	.10	.08
34606	LSG2040R *	JVP	2	Green	Green diffused (XC209G)	T1	0.119/3	0.13	1.05	0.08	2.2	15	560	50	*	.15	.12	.10
2120401	LMG32D-12V-B	SLD	1	Green	Green diff. (12V internal resistor)	T1	0.119/3	0.13	1.05	0.08	1.7	19	565	60	.29	.25	.19	.15
136274	LA44B/2G	JVP	3	Green	Green diffused (rt. angle) .60" LDS	T1	0.119/3	0.38	0.17	0.10	2.3	15	565	50	.39	.35	.25	.19
1554144	HLMP-1790-A0002R	AVT	2	Green	Green tinted/diffused	T1	0.119/3	0.19	0.95	0.10	1.9	2.3	565	50	.29	.25	.19	.15
175679	LVG2041R	JVP	2	Green	Green transparent	T1	0.119/3	0.17	0.69	0.08	2.2	129	565	30	*	.15	.12	.10
253665	HLMP-1540R	FSC	2	Green	Water clear	T1	0.119/3	0.19	1.00	0.10	45	2.2	565	45	*	.12	.10	.08
2081983	XLUG40W	JVP	2	Green	Water clear	T1	0.119/3	0.197	0.63	0.10	2.0	69	565	50	*	.10	.08	.06
333315	MV7441-JV	JVP	2	Green	Water clear	T1	0.119/3	0.13	0.98	0.10	1.7	120	565	40	*	.12	.10	.08
114681	LVG2043R *	JVP	2	Green	Water clear (BG209)	T1	0.119/3	0.14	0.98	0.07	2.2	129	565	30	*	.12	.10	.08
137411	LVB2040R	JVP	2	Blue	Blue diffused	T1	0.119/3	0.21	0.98	0.10	4.8	10	430	50	.89	.79	.69	.59
334457	LSBI2640R	JVP	5	Blue	Blue diffused	T1	0.119/3	0.17	0.98	0.10	3.8	50	430	40	.89	.79	.69	.59
333383	UT63B1-41-M1A2R	JVP	5	Blue	Blue diffused	T1	0.119/3	0.17	0.98	0.10	3.8	50	466	54	.49	.45	.35	.29
333973	UT1871-81-M1R	JVP	2	Red	Red diffused	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	75	660	25	*	.12	.10	.08
334035	UT1871-81-UR-P18	JVP	2	Red	Red diffused	T1 3/4	0.197/5	0.334	0.94	0.10	1.9	250	660	25	*	.15	.12	.10
242844	LT1811-81R	LED	2	Red	Red diffused	T1 3/4	0.197/5	0.30	0.88	0.10	2.1	4.1	700	44	*	.12	.10	.08
2125309	LS5469FH	SIE	2	Super Red	Red diffused	T1 3/4	0.20/5.1	0.31	1.10	0.10	1.8	5	635	50	.09	.08	.07	.07
253753	HLMP-3301R	FSC	2	Red	Red diffused	T1 3/4	0.197/5	0.36	1.00	0.10	2.4	5.4	635	60	*	.15	.12	.10
302033	LT1814-81	LED	2	Red	Red clear	T1 3/4	0.197/5	0.34	0.88	0.10	2.1	10	650	10	*	.10	.08	.06
333489	LUR3330/HO/A	JVP	2	Red	Red diffused	T1 3/4	0.197/5	0.34	0.98	0.10	1.5	380	660	40	*	.19	.15	.12
94511	LH3330R	JVP	2	Red	Red diffused (XC556RB)	T1 3/4	0.197/5	0.31	0.81	0.08	2.3	3	697	36	*	.15	.12	.10
104248	LA93B/H-1R *	JVP	10	Red	Red diffused (XC410R)	T1 3/4	0.197/5	0.35	0.89	0.08	2.3	6.5	697	46	.25	.21	.19	.15
34690	LFH3360R *	JVP	2	Red	Red diff. blinking (XC5410) <sup>2</sup>	T1 3/4	0.197/5	0.30	0.94	0.07	3-12	2.8	697	—	.39	.35	.29	.25
1554865	HLMP-4700-C00B2R	AVT	10	Red	Red tinted/diffused	T1 3/4	0.197/5	0.36	1.05	0.10	1.7	2.3	626	50	.59	.55	.49	.45
34745	LH3333R	JVP	2	Red	Water clear (XC554R)	T1 3/4	0.197/5	0.30	1.00	0.08	2.3	7.5	697	20	*	.15	.12	.10
2006756	LTL-5224	LTO	2	Hi-eff Red	Water clear, low profile, flanged	T1 3/4	0.197/5	0.24	1.01	0.10	2.0	29	623	44	*	.12	.10	.08
334378	UT1841R-81R	JVP	2	Hi-eff Red	Red diffused	T1 3/4	0.197/5	0.34	0.98	0.10	2.1	23.1	630	44	*	.12	.10	.08

\*10 pcs. \*\*100 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 27 <sup>1</sup> Reverse polarity to change color <sup>2</sup> Volt. shown is operating volt. range; no current limiting resistor required

Continued on next page

\* AVT = Avago | CML = CML Innovative | FSC = Fairchild Semi | JVP = ValuePro | LED = Ledtech | LTO = Lite On | SIE = Siemens | SLD = Sunled Corp | UNI = Unity Opto | ♦ Manufacturer varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

Order by Phone at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# Standard-Output LEDs

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE



## Standard-Output LEDs (Continued)

Figure images on previous page

★ Web Code: FAF

\* Order in multiples of 10

Part No.	Product No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing			
								A"	B"						1	10	100	1000
697602	LTL-4223R	LTO	2	Hi-eff Red	Red diffused	T1 ¾	0.197/5	0.34	1.00	0.10	2.0	19	635	36	*	\$ .11	\$ .09	\$ .07
697522	LTL-307E	LTO	5	Hi-eff Red	Red diffused	T1 ¾	0.197/5	0.34	0.90	0.10	2.0	19	635	50	*	.12	.10	.08
2006692	LTL-10224WHCR	LTO	7	Hi-eff Red	Red diffused w/ plastic case	T1 ¾	0.197/5	0.44	0.49	0.10	2.0	60	635	30	*	.15	.12	.09
790081	LTL-10223WR	LTO	5	Hi-eff Red	Red diffused, flangeless	T1 ¾	0.187/4.75	0.283	1.00	0.10	2.0	60	623	60	*	.12	.10	.08
2006730	LTL-307E-3**	LTO	2	Hi-eff Red	Red diffused, flanged	T1 ¾	0.197/5	0.34	0.87	0.10	2.0	12.6	635	40	*	.10	.08	.06
334271	LA93B/LR	JVP	10	Hi-eff Red	Red diffused PCB mnt indicators	T1 ¾	0.197/5	0.36	0.15	0.10	1.7	25	635	46	.29	.25	.19	.15
697611	LTL-4224R	LTO	2	Hi-eff Red	Red transparent	T1 ¾	0.197/5	0.34	1.00	0.10	2.0	90	635	16	*	.10	.08	.06
697573	LTL-4213R	LTO	2	Bright Red	Red diffused	T1 ¾	0.197/5	0.34	1.00	0.10	2.1	3.7	697	36	*	.11	.09	.07
790225	LTL-307P	LTO	5	Bright Red	Red diffused	T1 ¾	0.197/5	0.34	0.90	0.10	2.1	5.6	697	50	*	.12	.10	.08
334174	LHI3360R	JVP	6	Red/Orange	Red diffused bi-color/solid state <sup>1</sup>	T1 ¾	0.197/5	0.34	0.98	0.10	1.7	2 & 3	697/635	30	*	.19	.15	.12
34711	LEG3362R*	JVP	2	Red/Green	White diffused bi-color/bi-state <sup>1</sup>	T1 ¾	0.197/5	0.30	1.01	0.09	2.3	7.5	635/565	30	*	.19	.15	.12
334182	LGH3362R	JVP	2	Red/Green	White diff. bi-color/solid state <sup>1</sup>	T1 ¾	0.197/5	0.34	0.98	0.10	1.7	2 & 8	697/565	30	*	.19	.15	.12
34673	LHG3392R*	JVP	6	Red/Green	White diff. bi-color/tri-state <sup>1</sup>	T1 ¾	0.197/5	0.30	1.02	0.03	2.3	3 & 12	697/565	70	*	.19	.15	.12
1554831	HLMP-4000R	AVT	6	Hi-eff Red/Gm	White diffused, bi-color	T1 ¾	0.2/5.08	0.36	1.00	0.10	1.9/2.2	2.1/4.2	635/568	65	.29	.25	.19	.15
1584773	HLMP-4000S010R	AVT	10	Hi-eff Red/Gm	White diff. bi-color (right angle)	T1 ¾	0.2/5.08	0.36	1.00	0.10	1.9/2.2	2.1/4.2	635/568	65	.79	.69	.59	.49
697557	LTL-30EFJR	LTO	6	Bright Red/Gm	White diffused, bi-color	T1 ¾	0.197/5	0.41	0.945	0.10	2.1/2.1	5.6/19	697/565	30	.39	.35	.29	.25
152857	LT1841R-81-R	LED	2	Orange Red	Red diffused	T1 ¾	0.197/5	0.34	0.89	0.10	2.1	23	635	44	*	.15	.12	.10
210825	BVU-5M1Q1N1	BVO	5	Orange Red	Red diffused	T1 ¾	0.197/5	0.30	1.00	0.10	2.1	465	615	30	*	.10	.08	.06
107393	LE3330R	JVP	2	Orange Red	Orange diffused (XC556A)	T1 ¾	0.197/5	0.30	1.02	0.08	2.3	12	635	36	*	.12	.10	.08
697696	LTL-4253R	LTO	2	Yellow	Yellow diffused	T1 ¾	0.197/5	0.34	1.00	0.10	2.1	19	585	36	*	.12	.10	.08
334108	UT1831-81-S	JVP	2	Yellow	Yellow diffused	T1 ¾	0.197/5	0.34	0.98	0.10	2.1	16.4	589	44	*	.12	.10	.08
333622	LHY3330/HO	JVP	2	Yellow	Yellow diffused	T1 ¾	0.197/5	0.34	0.98	0.10	1.7	350	595	40	*	.15	.12	.10
2125288	LY5469FH	SIE	2	Yellow	Yellow diffused	T1 ¾	0.20/5.1	0.31	1.10	0.10	2.0	5	586	50	*	.09	.08	.07
697549	LTL-307YR	LTO	5	Yellow	Yellow diffused	T1 ¾	0.197/5	0.34	0.90	0.10	2.1	29	585	50	*	.12	.10	.08
34825	LY3330R	JVP	2	Yellow	Yellow diffused (XC556Y)	T1 ¾	0.197/5	0.30	0.82	0.07	2.3	12	585	36	*	.15	.12	.10
104264	LA93B/Y-1R*	JVP	10	Yellow	Yellow diffused (XC410Y)	T1 ¾	0.197/5	0.35	0.89	0.08	2.3	25	585	46	.25	.21	.19	.16
1995927	LTL-10253R	LTO	2	Yellow	Yellow diffused, flanged	T1 ¾	0.187/4.75	0.283	1.00	0.10	2.1	12.6	585	60	*	.10	.08	.06
790381	LTL-553-11R	LTO	10	Yellow	Yellow diffused, right angle PCB	T1 ¾	0.189/4.8	0.37	0.32	0.10	2.1	12.6	585	60	.25	.19	.15	.12
152831	LT1831-81-UR	LED	2	Bright yellow	Yellow diffused	T1 ¾	0.197/5	0.34	0.89	0.10	2.0	424	593	41	.39	.29	.25	.19
1554603	HLMP-3401-E00B2R	AVT	10	Amber	Amber diffused	T1 ¾	0.197/5	0.36	1.05	0.10	2.0	5.7	583	60	.49	.45	.39	.35
697653	LTL-4233R	LTO	2	Green	Green diffused	T1 ¾	0.197/5	0.40	1.00	0.10	2.1	19	565	36	*	.12	.10	.08
693901	MCDL-5013GD	MCD	2	Green	Green diffused	T1 ¾	0.197/5	0.34	1.04	0.10	2.1	12.5	565	60	*	.10	.08	.06
697531	LTL-307GR	LTO	2	Green	Green diffused	T1 ¾	0.197/5	0.34	1.00	0.10	2.1	19	565	50	*	.12	.10	.08
152822	LT1821-81-HE	LED	2	Green	Green diffused	T1 ¾	0.197/5	0.34	0.89	0.10	2.1	96	567	41	*	.19	.15	.12
2125296	LG5469FH	SIE	2	Green	Green diffused	T1 ¾	0.20/5.1	0.31	1.10	0.10	1.9	5	565	50	*	.09	.08	.07
253833	HLMP-4740	FSC	2	Green	Green diffused	T1 ¾	0.197/5	0.36	1.00	0.10	2.2	2.3	565	50	*	.15	.12	.10
334086	LG13740R	JVP	2	Green	Green diffused	T1 ¾	0.197/5	0.34	0.98	0.10	1.7	20	565	68	*	.10	.08	.06
34761	LG3330R*	JVP	2	Green	Green diffused (XC556G)	T1 ¾	0.197/5	0.31	0.79	0.09	2.3	12	565	36	*	.15	.12	.10
104256	LA93B/G-1R*	JVP	10	Green	Green diffused (XC410G)	T1 ¾	0.197/5	0.35	0.89	0.08	2.3	30	565	46	*	.19	.15	.12
790090	LT-10233WR	LTO	2	Green	Green diffused, flangeless	T1 ¾	0.187/4.75	0.28	1.0	0.10	2.1	40	569	60	*	.15	.12	.10
2126571	BR-B2134-12V	BRT	2	Green	Green diffused	T1 ¾	0.197/5	0.30	1.04	0.10	1.7-12	80	568	35	.29	.25	.19	.15
94561	LFG3360R	JVP	2	Green	Green diffused blinking (XC5408)	T1 ¾	0.197/5	0.30	1.05	0.08	3-12	17	565	20	.39	.35	.29	.25
1554881	HLMP-4740-A00B2R	AVT	10	Green	Green tinted/diffused	T1 ¾	0.197/5	0.36	1.05	0.10	1.9	2.3	569	50	.49	.45	.39	.35
175687	LT0524-81	LED	2	Green	Green transparent	T1 ¾	0.197/5	0.24	1.07	0.07	2.1	44	567	30	*	.10	.08	.06
697661	LTL4234R	LTO	2	Green	Green transparent	T1 ¾	0.197/5	0.34	1.00	0.10	2.1	60	565	16	*	.10	.08	.06
2100232	LTL-10234WHCR	LTO	6	Green	Green clear with plastic case	T1 ¾	0.197/5	0.44	0.49	0.10	2.1	60	565	30	*	.19	.15	.12
333956	LG3331R	JVP	2	Green	Green transparent	T1 ¾	0.197/5	0.34	0.98	0.10	1.7	150	565	20	*	.10	.08	.06
11359	LG3333R*	JVP	2	Green	Water clear (BG5704)	T1 ¾	0.197/5	0.30	1.04	0.07	2.3	100	565	20	*	.10	.08	.06
790321	LTL4238R	LTO	2	Green	Water clear	T1 ¾	0.197/5	0.34	1.00	0.10	2.1	90	565	16	*	.12	.10	.08
333227	LG13530R	JVP	5	Hi-eff green	Green diffused (flangeless)	T1 ¾	0.197/5	0.34	0.98	0.10	1.7	25	565	70	*	.10	.08	.06
138691	LVB3330R	JVP	2	Blue	Blue diffused	T1 ¾	0.197/5	0.34	0.98	0.10	4.8	10	430	36	.99	.89	.75	.69
2006764	LTL-2R3CBD3R	LTO	2	Blue	Blue diffused, flanged	T1 ¾	0.197/5	0.34	0.87	0.10	3.5	50	468	45	.49	.39	.29	.25
119634	LHR3930R	JVP	2	Red	Red diffused Jumbo (LT9952L)	T2 ½	0.315/8	0.44	0.84	0.07	2.0	100	660	44	*	.19	.15	.12
138683	LHR3630R	JVP	5	Red	Red diffused XJumbo (XC10R)	T3 ¾	0.394/10	0.40	1.04	0.10	2.0	100	660	32	.29	.25	.19	.15
98984	LVG3630R	JVP	2	Green	Green diffused XJumbo (XC10G)	T3 ¾	0.394/10	0.40	1.07	0.08	2.3	40	565	32	.29	.25	.19	.15
104889	LEG5292	JVP	11	Red/Green	White diff. bi-color rectangular <sup>1</sup>	2x5mm	—	0.27	1.02	0.08	2.3	6/6	695/565	116	.29	.25	.19	.15
790356	LTL-433GR	LTO	11	Green	Green diffused, rectangular	2x5mm	—	0.30	1.00	0.10	2.1	3.7	565	140	*	.12	.10	.08
320282	566-0306	DIA	12	Yellow	Yellow diffused, rectangular	2x5mm	15x4x7mm	0.28	0.11	0.10	2.1	3.5	583	110	*	.19	.15	.12
320274	566-0206	DIA	12	Green	Green diffused, rectangular	2x5mm	15x4x7mm	0.28	0.11	0.10	2.2	4	565	110	*	.19	.15	.12
320291	566-0406	DIA	12	Red	Red diffused, rectangular	2x5mm	15x4x7mm	0.28	0.11	0.10	2.0	7.4	635	140	*	.19	.15	.12
2005737	LTJ-811Y	LTO	13	Yellow	Sphere lens (12-pin)	20mm dome	0.8/20	0.91	0.53	0.60	2.1	25	565	30	.49	.45	.35	.28

\* 10 pcs./\*\* 100 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 27 <sup>1</sup> Reverse polarity to change color

\* AVT = Avago Tech | BRT = Bright LED Elec. | BVO = BV Optotech | DIA = Dialight | FSC = Fairchild Semi | JVP = Jameco ValuePro | LED = Ledtech | LTO = Lite-On | MCD = MCD Elec. | SIE = Siemens

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.



## Medium-Output LEDs

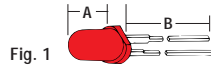


Fig. 1

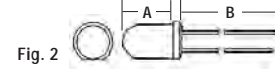


Fig. 2

★ Web Code: MBW

\* Order in multiples of 10

Part No.	Product No.	Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing			
								A"	B"						1	10	100	1000
156954	LT0373-41	LED	1	Red Super Bright	Water clear	T1	0.119/3	0.21	1.07	0.08	1.7	600	660	46	*	\$ .19	\$ .15	\$ .12
333340	LHE2643	JVP	1	Orange	Water clear	T1	0.119/3	0.13	0.98	0.10	1.7	700	620	40	*	.19	.15	.12
333307	LUY2643-1	JVP	1	Yellow	Water clear	T1	0.197/5	0.13	0.98	0.10	1.7	900	595	40	.35	.29	.25	.19
98968	QLMP-LB98	AVT	2	Blue	Blue clear (oval)	T1	0.119/3	0.28	0.94	0.10	3.2	550	470	70	.35	.29	.25	.19
334749	UT63B3-41-UR33	JVP	1	Blue	Water clear	T1	0.119/3	0.17	0.94	0.10	3.2	900	470	45	.79	.69	.59	.49
2115688	NSPB346BST	NCH	2	Blue	Blue diffused (oval)	T1	0.119/3	0.28	0.94	0.10	3.6	720	470	30	.49	.45	.39	.35
334764	CMD204UWC-JV	JVP	1	White	Water clear	T1	0.119/3	0.20	1.00	0.10	3.7	900	475	30	.99	.89	.75	.65
11797	QLMP-D141*	FSC	1	Red	Water clear	T1 3/4	0.197/5	0.29	1.05	0.07	2.0	350	660	8	*	.19	.15	.12
333497	LSR13233	JVP	1	Red	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.5	720	660	18	*	.19	.15	.12
1995978	LTL-353CKRH4	LTO	2	Red	Water clear	T1 3/4	0.197/5	0.35	1.00	0.10	1.8	1000	660	12	*	.19	.15	.12
2077052	HLMP-ED31	AGT	2	Red	Water clear	T1 3/4	0.197/5	0.34	0.94	0.10	2.0	1000	630	30	*	.15	.12	.09
206519	LHR3331	JVP	1	Red	Red transparent	T1 3/4	0.197/5	0.24	1.07	0.07	2.0	660	550	20	*	.19	.15	.12
152864	BUV501SR4	JVP	1	Red Super Bright	Water clear	T1 3/4	0.197/5	0.34	0.89	0.10	1.9	600	660	20	*	.12	.10	.08
351089	MCDL-517URD-F	JVP	1	Super Red	Red diffused blinking	T1 3/4	0.197/5	0.34	1.00	0.10	1.8	500	660	120	.49	.45	.39	.35
333631	LUE13733	JVP	1	Orange	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	700	620	25	.29	.25	.21	.19
203553	HLMP-4100	AGT	1	Orange Red	Water clear	T1 3/4	0.197/5	0.32	1.00	0.10	1.8	750	642	8	.29	.25	.19	.15
152792	LT1833-81- M1	LED	1	Yellow	Water clear	T1 3/4	0.197/5	0.34	0.89	0.10	2.1	1040	593	19	.35	.29	.25	.19
206501	LVY3331	JVP	1	Yellow	Yellow transparent	T1 3/4	0.197/5	0.24	1.07	0.07	2.2	700	595	20	*	.19	.15	.12
153154	LVG3333	JVP	1	Green	Water clear (HLMP-8509)	T1 3/4	0.197/5	0.36	0.90	0.10	2.3	500	565	20	*	.15	.12	.10
156962	LT1823-81-HE	LED	2	Green	Water clear	T1 3/4	0.197/5	0.34	0.87	0.10	2.1	500	567	19	*	.12	.10	.08
333551	LVG13233	JVP	1	Green	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.7	600	565	18	*	.19	.15	.12
134333	383UBC/H2	JVP	1	Blue	Water clear	T1 3/4	0.197/5	0.34	1.00	0.10	3.8	630	428	30	1.49	1.35	1.19	1.09
334465	LDBK3331/HO	JVP	1	Blue	Blue transparent	T1 3/4	0.197/5	0.34	0.98	0.10	3.5	900	470	26	.89	.79	.65	.59

\* 10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 27

## High-Output LEDs

• Typical DC forward current 20mA

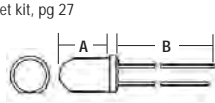


Fig. 1

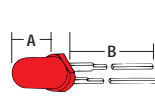


Fig. 2



Fig. 3  
(Piranha)

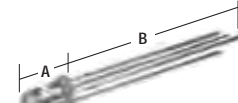


Fig. 4

★ Web Code: RBJ

\* Order in multiples of 10

Part No.	Product No.	Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing			
								A"	B"						1	10	100	1000
98950	QLMP-LM98	AVT	1	Green	Green clear (oval)	T1	0.119/3	0.28	0.94	0.10	3.2	2400	525	70	*	\$ .19	\$ .15	\$ .12
217525	MCDPW-3004C	JVP	1	White	Water clear	T1	0.119/3	0.18	1.00	0.10	3.8	3000	—	30	1.39	1.25	1.09	.99
197641	BVT-529TBE	JVP	1	Yellow	Yellow clear (oval)	T1 1/2	0.178/4.5	0.29	1.09	0.08	2.3	3600	592	70	.59	.49	.39	.35
2006801	LTL-2H3VAKNT	LTO	2	Red	Water clear, flanged	T1 3/4	0.197/5	0.34	0.87	0.10	2.0	3400	621	15	.29	.25	.19	.15
2125413	TLHK5800	VSH	1	Red	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.9	2500	630	40	.25	.21	.19	.15
334423	UT9C13-86-UDC2	JVP	2	Red	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.9	2700	630	18	.25	.21	.19	.16
333518	LUR13233	JVP	2	Red	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.5	2400	660	18	*	.19	.15	.12
333526	LUR3833	JVP	2	Red	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.5	2700	660	12	.25	.21	.19	.16
1586189	UT1813-83-UJEI	LED	2	Red	Water clear	T1 3/4	0.197/5	0.34	1.00	0.10	2.1	5500	632	25	.39	.35	.29	.19
1584917	HLMP-EG08-Y2000	AVT	2	Red	Red untinted/non-diffused	T1 3/4	0.197/5	0.34	1.20	0.10	1.9	9300	635	6	.49	.39	.35	.29
333447	UT1873-81-UR-P22R	JVP	1	Super Red	Water clear	T1 3/4	0.197/5	0.34	0.89	0.10	1.9	1600	660	25	.25	.21	.19	.16
2095171	RL50-PR543	JVP	1	Ult. Bright Red	Water clear	T1 3/4	0.197/5	0.30	1.02	0.10	1.7	8000	635	20	.39	.29	.19	.15
334482	UT1813-86-UC9T-P27	JVP	2	Ult. Bright Red	Water clear	T1 3/4	0.197/5	0.34	0.94	0.10	2.2	3500	630	15	.49	.45	.35	.29
197683	BVT-5E1QT4ER	JVP	2	Orange Red	Water clear	T1 3/4	0.197/5	0.29	1.08	0.08	2.3	4650	634	15	.59	.55	.45	.39
2006799	LTL-2R3VYKNT	LTO	2	Orange	Water clear, flanged	T1 3/4	0.197/5	0.34	0.87	0.10	2.0	1300	595	30	*	.15	.12	.10
333665	LEF3833	JVP	2	Orange	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	1700	620	12	.25	.22	.19	.15
333649	LHE3333	JVP	2	Orange	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	1800	620	20	*	.19	.15	.12
333657	LUE3333	JVP	1	Orange	Water clear	T1 3/4	0.197/5	0.34	0.94	0.10	2.1	3400	620	20	.39	.35	.25	.19
333673	LUE3833	JVP	1	Orange	Water clear	T1 3/4	0.197/5	0.34	0.94	0.10	2.1	5000	620	12	.45	.39	.29	.25
333614	LUY3833H	JVP	2	Yellow	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	5000	590	12	.45	.39	.29	.25
333569	LUY3333/A	JVP	2	Yellow	Water clear	T1 3/4	0.197/5	0.35	1.00	0.10	1.7	1500	595	20	.25	.21	.19	.15
333593	LUY13533	JVP	2	Yellow	Water clear	T1 3/4	0.197/5	0.35	1.00	0.10	1.7	1500	595	20	.25	.19	.15	.12
333606	LHY3833	JVP	1	Yellow	Water clear	T1 3/4	0.197/5	0.34	0.94	0.10	2.1	2700	595	12	.29	.25	.19	.15
197675	BVT-5E1TT4E	JVP	1	Yellow	Water clear	T1 3/4	0.197/5	0.34	1.00	0.10	2.3	7800	592	15	.45	.39	.35	.29
2095189	RL50-PEY543	JVP	1	Ultra Yellow	Water clear	T1 3/4	0.197/5	0.30	1.02	0.10	1.7	8000	595	20	.39	.29	.19	.15
2006772	LTL-2H3VYKNJ1	LTO	2	Amber/Yellow	Water clear, flanged	T1 3/4	0.197/5	0.34	0.87	0.10	2.0	3400	595	15	*	.15	.12	.10
2006781	LTL-2R3SYKS	LTO	2	Amber	Water clear, flanged	T1 3/4	0.197/5	0.34	0.87	0.10	2.2	2800	594	30	.39	.35	.25	.19
334473	LDGL3333/HO	JVP	2	Green	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	3.5	3400	502	22	.79	.69	.65	.59
183214	MCDPG-503PC1	JVP	2	Green	Water clear	T1 3/4	0.197/5	0.30	1.04	0.08	3.5	2200	515	10-15	1.49	1.35	1.19	1.09
1586197	UT4123-4D-UBC	LED	2	Green	Water clear	T1 3/4	0.197/5	0.32	1.00	0.10	3.0	2500	500	28	.45	.39	.35	.29
2077079	HLMP-CM39-UVCD	AGT	1	Green	Untinted/non-diffused	T1 3/4	0.197/5	0.34	0.94	0.10	3.2	5000	535	30	.49	.45	.39	.35
183222	MCDL-513SBC4	JVP	2	Blue	Water clear	T1 3/4	0.197/5	0.29	1.02	0.08	3.6	3000	470	25	1.39	1.25	1.09	.99

\* 10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 27

High-Output LEDs continued on next page

\* AGT = Agilent | AVT = Avago Technology | FSC = Fairchild Semiconductor | JVP = Jameco ValuePro | LED = Ledtech | LTO = Lite-On | NCH = Nichia | VSH = Vishay

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# High-Output & Surface Mount LEDs

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

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## High-Output LEDs (Continued)

Figure images on previous page

\*Web Code: RBJ

Part No.	Product No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing			
								A"	B"						1	10	100	1000
334502	LWK3333	JVP	2	White	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	3.5	5000	—	16	\$ .89	\$ .79	\$ .65	\$ .59
334773	UT18W3-86-UF1-P22	JVP	2	White	Water clear	T1 3/4	0.197/5	0.34	1.00	0.10	3.6	2900	—	25	1.35	1.25	1.09	.99
142894	BVU-5E1WK4-B	JVP	2	White	Water clear	T1 3/4	0.197/5	0.34	0.79	0.08	3.5	3700	—	15	1.49	1.35	1.19	1.05
1870796	MV8W00	FSC	2	White	Water clear	T1 3/4	0.197/5	0.33	1.00	0.10	3.8	2500	—	20	2.49	2.29	2.09	1.95
320531	MCDL-5013UWC	JVP	2	White	Water clear	T1 3/4	0.197/5	0.30	1.00	0.10	3.8	5000	—	15	.99	.89	.75	.65
2077061	EM-503QWC-R12	JVP	1	White	Water clear	T1 3/4	0.197/5	0.34	1.00	0.10	4.5	5000	—	25	.99	.89	.75	.65
2115493	UT5HW3-4D-URC3-4861-R	LED	2	White	Water clear	T1 3/4	0.197/5	0.30	1.00	0.10	4.0	7000	—	30	1.19	1.09	.95	.79
2005702	LTL912VEKSA	LTO	3	Red	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.1	1200	632	50	.35	.29	.25	.19
1952222	LTL912SEKSA	LTO	3	Hi-Eff Red	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.5	3750	628	60	.35	.29	.25	.19
664413	MCDL-1870UEC-TL	JVP	3	Hi-Eff Red	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.0	4200	625	40	.85	.75	.59	.55
2005690	LTL911VYKSA	LTO	3	Amber	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.1	600	595	70	.29	.25	.19	.15
2005729	LTL9145YKS	LTO	3	Amber	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.5	2000	596	70	.39	.35	.29	.25
404603	MCDL-1860UGC-TL	JVP	3	Green	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	3500	525	75	1.35	1.25	1.09	.99
404591	MCDL-1860UBC-15C	JVP	3	Blue	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	2500	470	75	1.49	1.35	1.19	1.09
664368	MCDL-1870UBC-TL	JVP	3	Blue	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	2300	470	40	1.35	1.25	1.09	.99
664341	MCDL-1870UWC-15C	JVP	3	White	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	6500	—	40	1.69	1.55	1.39	1.29
404582	MCDL-1860UWC-15C	JVP	3	Ultra White	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	3500	—	75	1.69	1.55	1.39	1.29

## 3-Color High-Output LEDs

Part No.	Product No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing			
								A"	B"						1	10	100	1000
2125181	MCDL-518R6G5B6C	JVP	4	Red/Green/Blue	Water clear	T1 3/4	0.197/5	0.34	1.11	0.028	2.25/3.5/3.5	3500/4000/2000	624/525/470	20	\$1.89	\$1.69	\$1.49	\$1.35
2128500	MCDL-5013R6GB-TL-A	JVP	4	Red/Green/Blue	Water clear	T1 3/4	0.197/5	0.30	0.78	0.05	2.0/3.5/3.5	3000/5000/1000	628/525/470	25	1.89	1.69	1.49	1.35

2125181: Common Ground; 2128500: Common Anode

## Standard & Ultra-Bright Surface Mount LEDs

\*Web Code: LMS

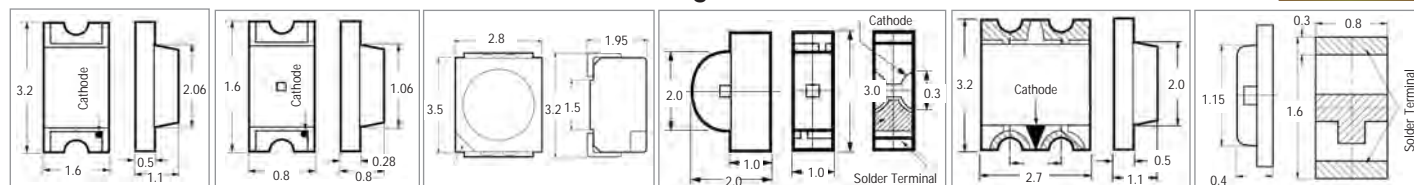


Fig. 1 - 1206

Fig. 2 - 0603

Fig. 3 - PLCC-2

Fig. 4 - 1208 Right Angle

Fig. 5 - 1210

Fig. 6 - 0603 Super Thin

\* Order in multiples of 10

Part No.	Mfr. Part No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	Typical Vf (V)	If Max. (mA)	Iv Typical mcd @ mA	Peak Wavelength (nm)	Viewing Angle (2x Theta)	Pricing			
											1	10	100	1000
1260365	LTST-C150EKT	LTO	2	Red Orange	Water clear	2.0	30	2 @ 10	630	130	*	\$ .06	.04	\$ .03
1557054	HSMS-C660	AVT	4	Red	Water clear	1.9	20	5 @ 20	639	155	*	.19	.15	.12
1260357	LTST-C190CKT	LTO	2	Red	Water clear	1.8	40	10 @ 10	660	130	*	.07	.05	.03
1556414	HSMH-C150	AVT	1	Red	Water clear	1.8	20	17 @ 20	630	130	*	.10	.08	.06
1556431	HSMH-C190	AVT	2	Red	Water clear	1.8	20	17 @ 20	660	170	*	.10	.08	.06
1556422	HSMH-C170	AVT	1	Red	Water clear	1.8	20	17 @ 20	610	170	*	.10	.08	.06
697733	LTST-C150CKT	LTO	1	Red	Water clear	1.8	40	25 @ 20	660	130	*	.09	.07	.06
658321	HSL-204DR	UNI	3	Red	Water clear	1.8	20	50 @ 20	657	130	*	.19	.15	.12
1556300	HSMF-C155	AVT	5	Hi-eff Red/Green	Water clear	2.1/2.2	20/20	10/15 @ 20	630/570	170/170	*	.19	.15	.12
334318	LG-150E-DT	JVP	1	Orange	White diffused	2.1	20	5 @ 20	635	150	*	.10	.08	.06
334289	LG150E-CT	JVP	1	Orange	Water clear	1.7	20	6 @ 20	635	150	*	.10	.08	.06
1996111	LTST-C150YKT	LTO	1	Yellow	Water clear	2.1	20	6 @ 10	585	130	*	.07	.05	.03
334351	YT95531/TRI	JVP	3	Yellow	Water clear	1.7	20	7 @ 10	585	84	*	.12	.10	.08
697741	LTST-C150GKT	LTO	1	Green	Water clear	2.1	30	6 @ 10	565	130	*	.10	.08	.07
334369	LVG9553/TRI	JVP	3	Green	Water clear	1.7	20	9 @ 10	565	84	*	.15	.12	.10
1556406	HSMG-C660	AVT	4	Green	Water clear	2.2	20	9 @ 20	570	155	.29	.25	.19	.15
2039902	LTST-C150FKT*	LTO	1	Green	Water clear	2.1	20	14.2 @ 20	565	130	*	.12	.10	.08
2046441	LTST-C150CBKT	LTO	1	Blue	Water clear	3.7	20	20 @ 20	468	130	.39	.35	.25	.19
2047945	LTST-C191TBKT	LTO	5	Blue	Water clear	3.4	20	30 @ 20	468	130	.29	.19	.15	.12
334781	LG-150DBK-CT	JVP	1	Blue	Water clear	3.5	20	40 @ 20	470	150	.49	.45	.39	.35
658355	MSL-204MB*	UNI	3	Blue	Water clear	3.5	20	120 @ 20	468	120	.49	.45	.39	.35
2033164	LTW-C193TS5	LTO	6	White	Water clear	2.95	20	78 @ 5	—	130	*	.19	.15	.12
658347	HSL-204MW	UNI	3	White	Water clear	3.5	20	400 @ 20	—	130	.69	.59	.49	.39
334756	LT5KW3-AA-UAE3	JVP	3	White	Water clear	3.2	20	750 @ 20	—	120	.59	.49	.39	.35

\* Ultra-bright AlInGaP surface mount LED

\* AVT = Avago Technology | FSC = Fairchild Semiconductor | JVP = Jameco ValuePro | LED = Ledtech | LTO = Lite-On | UNI = Unity Opto Technology

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.





## Conxrite Locking Header

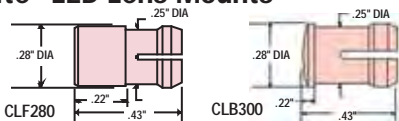
This locking header provides positive locking between PCB and cable assembly.

Part No.	Mfr. Part No.	Description	1	10	100	500
417682	CNXH03NTP	Horizontal 3-pin	\$.25	\$.22	\$.19	\$.17



## T1 3/4 Cliplite® LED Lens Mounts

Standard CLF280 and low profile CLB300 provide 180° viewing angle. Colors: red and clear.

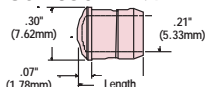


Part No.	Mfr. Part No.	Size	Color	1	10	100	1000
29612	CLF280RTP	T1 3/4	Red	\$.29	\$.25	\$.21	\$.19
14277	CLF280CTP	T1 3/4	Clear	.29	.25	.19	.16
124927	CLB300CTP	T1 3/4	Clear	.29	.25	.21	.19



## Panel Lens for PCB Mounted T1 3/4 LED

T1-3/4 size low-profile panel lenses provide 180° viewing angle.



Part No.	Mfr. Part No.	Size	Color	Length	1	10	100	1000
143132	CMC321CTP	T1 3/4	Clear	.33"	\$.29	\$.25	\$.21	\$.19

**\*LED Mounting Hardware — Enter Web Code: KAL**

## PHILIPS Xitanium LED Driver Module

Xitanium drivers from Advance deliver solid performance and reliability for 12V lighting system.

- UL and CSA class 2 rated
- Low temperature -40°C
- UL IP66 rated for outdoor use
- High temperature +60°C

Part No.	Description	1	5	25
2120233	12VDC/1A LED driver	\$19.95	\$17.95	\$15.95



## 1" x 1.56" LED Backlight

- IC compatible
- D.C. forward current: 30mA
- Peak wavelength: 567nm @ 20mA
- View angle: 52°
- Forward voltage: (typical) 4.2V @ 20mA; (max) 6.0V @ 20mA
- Luminous intensity: (min) 14.9mcd @ 20mA; (typical) 24.8mcd @ 20mA

Part No.	Mfr. Part No.	LED Material	Emitting Color	Lens Color	1	10	100
302535	LTIF24-A2-S8	GaP	Green	G.C.	\$.139	\$.115	\$.85



## 2-150mA T1 & T1 3/4 LED Tester

Plug any leaded LED into any 2 rows of sockets. 13.1" spaced positions test T1/T1 3/4 LEDs from 2 to 30mA; 13.2" spaced positions test larger footprint (high flux) LEDs from 20 to 150mA. Uses 9V battery (P/N 198731 – sold separately).

Part No.	Description	Size (L x W x H)	1	5	25
355805	LED tester	3.1" x 2.2" x 0.9"	\$9.95	\$8.95	\$7.95



## Power LED Driver Modules

- Delivers accurate constant current required by most high power LEDs
- Input voltage: 6-12VAC/9-18VDC
- Power consumption: 650mA max.
- High efficiency due to switch mode principle
- Size: 1.8"L x 1.2"W x 0.64"H
- Short-circuit protected
- Built-in rectifier for easy connection to AC source
- Also suited as fixed current NiCd/NiMH battery charge circuit
- Constant current source:



Part No.	Mfr. Part No.	Description	1	5
2006924	VM143/3W	3-watt module	\$35.95	\$32.35
2006932	K8071	1-watt/3-watt module kit	15.95	14.49

## Conxrite Pre-Wired Solderless LED Interconnect

Designed to replace labor-intensive hard-wiring of panel-mounted LEDs to PCB.



For complete specifications see [www.Jameco.com](http://www.Jameco.com)

Part No.	Mfr. Part No.	LED Size	Termination (leads)	Length	1	10	100
417391	CNXBE2124	T1 (3mm)	2-pin connector	24"	\$1.75	\$1.59	\$1.39
417501	CNXCE2112	T1 3/4 (5mm)	Stripped leads (2)	12" ...	1.49	1.35	1.19
143037	CNXCE2108	T1 3/4 (5mm)	2-pin connector	8" ...	1.95	1.75	1.59
417463	CNXCE2112	T1 3/4 (5mm)	2-pin connector	12" ...	1.39	1.25	.99
143053	CNXCE2118	T1 3/4 (5mm)	2-pin connector	18" ...	2.49	2.25	1.95
673820	CNX40-X02-4-1-08	T1 3/4 (5mm)	2-pin conn. (twist fit)	8" ...	1.95	1.75	1.49
417607	CNXDX2612	T1 3/4 (5mm)	Stripped leads (3)	12" ...	1.09	.99	.89
417615	CNXDX2618	T1 3/4 (5mm)	Stripped leads (3)	18" ...	1.09	.99	.89
417535	CNXDF2604	T1 3/4 (5mm)	3-pin connector	4" ...	1.25	1.09	.99
417560	CNXDF2618	T1 3/4 (5mm)	3-pin connector	18" ...	1.39	1.25	1.09
417578	CNXDF2624	T1 3/4 (5mm)	3-pin connector	24" ...	1.45	1.29	1.17

## T1 & T1 3/4 LED Mounting Hardware

- Color: black
- Order in multiples of 10



Part No.	Mfr. P/N	Mfr. Description	Mounting Hole Dia.	Panel Thickness	Pricing		
					10	100	1000
95513	LMH100	LIG T1 snap-in	.185"	up to .070"	\$.12	\$.10	\$.08
23077	LMH200	LIG T1 3/4 ring/clip	.257"	up to .125"	.15	.14	.12
95521	LMH250	LIG Rect. snap in	.306" x .202"	up to .092"	.07	.06	.05
379815	MCD-10MM	JVP 10mm snap in	.539"	up to .1025"	.25	.21	.15

## T1 & T1 3/4 LEDs & LED Mounting Hardware Kit (560 pcs.)

- Includes:**
- 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 163 and labels
  - 10 ea. standard-output LEDs (34657, 114673), pg 23, 114681, 34606, 34825, 34711, 104248, 34690, 34673), pg 24 & (34761, 104256, 11359), pg 24 and LED lens mount (14277), left
  - 100 ea. LEDs (202471), pg 22 & 2006730, pg 24
  - 100 ea. LED mounting hardware (95513, 23077), above

**SAVE \$15**

Part No.	Description	Wt. (lbs.)	1	5
84996	560-piece LEDs & LED hardware kit	5.0	\$69.95	\$59.95



## LED & LED Hardware Assortment Kit (139 pcs.)

Allows you to mount LEDs for different applications and designs. Eliminates soldering, shrink tubing and terminal crimping.

- 139-piece hardware assortment kit for T1 and T1 3/4 LEDs
- Clear plastic case w/ dividers
- Size: 8.5"L x 4.5"W x 1.5"H



Part No.	Description	Wt. (lbs.)	1	10
418731	Design Engineer's LED hardware kit	0.4	\$19.95	\$17.95



## 3 & 10W Constant Current LED Drivers

- Type: AC – DC
- Input volt.: 100-240VAC @ 50-60Hz
- 3-watt LED drivers can drive 2 to 8 1W LEDs or 1 to 3 3W LEDs
- 10-watt LED drivers can drive 3 to 8 1W LEDs
- Operating temp. range: -20°C to 40°C
- UL/CUL/CE approved
- Plug in type, 7ft. cable w/ 2.1mm x 5.5mm center positive



Part No.	Mfr. Part No.	Description	Output Volt./Curr.	1	5
2006887	LD-PI7021AF	3-watt LED driver	3-21VDC @ 700mA	\$18.95	\$16.95
2006879	LD-PI3536AF	10-watt LED driver	3-36VDC @ 350mA	17.95	15.95



**We Ship the Same Day!**  
Just place your order by 6PM EST.

\* JVP = Jameco ValuePro | LIG = Ligitek

**\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above**

# High Power LEDs, Modules & LED Strips

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE



## Dual CCFL Kits

This kit is a dual CCFL that comes with an inverting power supply (12VDC @ 5mA input: 620V output), wire harnesses and connectors for easy set-up.

- Lamp diameter: 3mm (protected inside a clear acrylic tube) • Length per lamp: 300mm (12")
- Average lifespan: 30,000 hrs.
- Supply voltage: 620V
- Brightness: 30,000cd
- Lamp current: 5mA

See pg 181 for  
Flashing LED Kits

Part No.	Mfr. Part No.	Color	1	5
2006975	CCFL2W	White	\$14.95	\$13.49
2006983	CCFL2R	Red	13.95	12.49
2007003	CCFL2UV	Ultra violet	13.95	12.49
2007011	CCFL2BU	Blue	13.95	12.49



## MCD

## High Power LEDs

- Superior high-flux output and high luminance
- ESD protection
- We offer the Lambertian or 'High Dome' LED that has a high hemispherical dome with a wider 140° viewing angle. The high dome series project a wider but clearer light beam



With Heat Sink  
(2006895)



Without Heat Sink  
(2096798)

\*Web Code: HPL

Part No.	Mfr. Part No.	Power (W)	Color	Volt. @ Current (Vf @ If)	Luminous Flux (lm)	Viewing Angle (°)	Pricing		
							1	10	25
2006895	L-HP1PW	1	White	3.2 @ 350mA	40	90	\$7.95	\$7.25	\$6.49
2096780	MCDL-L20-350HPCW	1	White	3.2 @ 350mA	90	140	6.95	6.25	5.49
2096843	MCDL-L20-350HPCWS	1	White	3.2 @ 350mA	90	140	6.95	6.25	5.49
2096798	MCDL-L20-350HPWW	1	Warm white	3.2 @ 350mA	86	140	6.95	6.25	5.49
2096851	MCDL-L20-350HPWWS	1	Warm white	3.2 @ 350mA	86	140	7.95	6.95	6.25
2006908	L-HP3PW	3	White	3.2 @ 1A	120	90	14.95	13.49	11.95

† Represents Star form factor with heat sink

See Inside Front Cover & Web for our **NEW Flex-Lite LED Cables.**

\*Web Code: FLX



## BlinkM Programmable Smart LEDs



2123629

2123645

2123637

2123653

Prototyping, experimenting and hacking with light is easier than ever with smart LEDs from ThingM. Choose virtually any color, fade between two colors, or make your own blinking sequence with open source software, then install it into your project and illuminate! No knowledge of programming or electronics required.

2123645/2123637/2123653: 24-bit, 4-pin I2C interface

Part No.	Mfr. P/N	Description	1	5
2123629	LinkM	USB programmer, 4-pin 0.1" I2C, driverless	\$29.95	\$27.95
2123645	MiniM	6000 mcd, 120° FOV, 3.6-5V op. volt, 60mA max	13.95	12.95
2123637	BlinkM	8000 mcd, 140° FOV, 3.6-5V op. volt, 60mA max	13.95	12.95
2123653	MaxM	445,000 mcd, 30° FOV, 5-24V op. volt, 3A max	24.95	23.49



## Regulated LED Light Engine Module

This ultra-bright LED may be small in size, but it provides a great amount of light. The single LED boasts 3W of power and 200 lumens! The built-in regulated LED drivers can take an input range of 6-30VDC/AC and it even includes AC to DC reverse polarity protection for added safety.

- Thermal grease included
- Heat sink required



NEW  
MARKED IN PINK

Part No.	Mfr. Part No.	Color	Volt	Power	Viewing Angle	1	10
2129220	LHS-01B30-N	White	6-30	3W	120°	\$14.95	\$13.49



## Ultra Brite LED Modules with Built-In LED Drivers

An all-in-one solution to your high power LED lighting needs! With its built-in LED Drivers, the module can be connected directly to any 8-30V battery or power supply without the need for an external LED Driver Module. Adding to its versatility, on-board current regulation circuitry allows the module to operate flawlessly without the need of a heat sink. Compact in size at 1" x 1.25" and linkability (up to 30 modules) make it ideal for unlimited home, commercial, industrial, and hobby project applications.



\*Web Code: LEM

Part No.	Mfr. Part No.	#Leds	Power	Volt	Color	Viewing Angle	Im	1	5
2125763	LHA-06B12-N-00	6	150mA	6	White	120°	87	\$9.95	\$8.95
2113033	LHA-02B30-G-00	2	40mA	8-30	Green	120°	22	8.95	7.95
2113041	LHA-06B30-N-00	6	74mA	8-30	White	120°	87	11.95	10.95
2113050	LHA-06B30-R-00	6	59mA	8-30	Red	120°	29	11.95	10.95
2113068	LHA-06B30-B-00	6	75mA	8-30	Blue	120°	17	12.95	11.49
2113076	LHA-06B30-G-00	6	76mA	8-30	Green	120°	65	12.95	11.49

## JKL

## Festoon LEDs – 12V & 24V

\*Web Code: FES

- Voltage and current: LE-0603-02; ±12VDC @ 20mA; LE-0603-04; ±24VDC @ 12mA
- Low heat
- Low power consumption with high intensity
- Scratch and shock resistant glass encapsulated
- Size: 43mm (1.7") L x 10.5mm (0.41") Dia.



Shown with Socket  
(sold separately)

### Lamps

Part No.	Mfr. Part No.	Voltage @ Current	Color	Lumens	1	10	50
2113308	LE-0603-02R	12VDC @ 20mA	Red	2.0	\$2.25	\$1.95	\$1.75
2113359	LE-0603-04R	24VDC @ 12mA	Red	2.0	2.25	1.95	1.75
2113295	LE-0603-02Y	12VDC @ 20mA	Yellow	2.0	2.25	1.95	1.75
2113341	LE-0603-04Y	24VDC @ 12mA	Yellow	2.0	2.25	1.95	1.75
2113287	LE-0603-02G	12VDC @ 20mA	Green	9.0	3.95	3.49	2.95
2113332	LE-0603-04G	24VDC @ 12mA	Green	9.0	3.95	3.49	2.95
2113279	LE-0603-02B	12VDC @ 20mA	Blue	2.0	3.95	3.49	2.95
2113324	LE-0603-04B	24VDC @ 12mA	Blue	2.0	3.95	3.49	2.95
2113261	LE-0603-02W	12VDC @ 20mA	White	10.0	4.95	4.49	3.95
2113316	LE-0603-04W	24VDC @ 12mA	White	10.0	4.95	4.49	3.95

### Socket

Part No.	Mfr. Part No.	Description	1	10	50
2113367	2910F-47	Socket	\$0.69	\$0.59	\$0.55



## Flexible Cable RGB LED Strips

This flexible cable LED strip contains 75 surface mount LEDs that have 3 colors in the same LED red, green and blue. The strip can be cut into 3 LED sections to fit your lighting application. Typical applications are architectural lightings, interior lighting, hallways, under cabinet lighting, boats, automobiles and many other applications. With the LED strip connected to the RGB controller, you can provide different lighting modes such as flashing mode (fast or slow), slow fade out, and color change mode.



2112647

- Total strip length: 8 feet (P/N 2112647)
- 75 surface mount LEDs in red, green, blue color outputs
- Current requirement: 3A
- Input voltage 12V @ 3 Amps (recommend P/N 1708625, pg 117)

Part No.	Mfr. Part No.	Description	1	5	25
2112647	VLS5060RGB150-8FT	75 LEDs, 8 feet LED strip ...	\$59.95	\$53.95	\$47.95
2112655	RGB-Connect	RGB cable, 12' wire	1.95	1.75	1.59

## LED Light Strip Modules

- Applications: running light or light source for under cabinets, closets, RVs & enclosures



683235 (17")

1586171 (15")

Part No.	Mfr.	Mfr. Part No.	Color	Viewing Angle	1	5	25
683235	ValuePro	LS1255-150A112	Yellow	100°	\$9.95	\$8.95	\$7.95
1586171	Ledtech	UY19209-627	White	120°	19.95	17.95	15.95

\*LED Light Strips — Enter Web Code BDZ

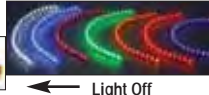
RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

## Silicone Sealed Flexible LED Strips

Sealed in silicone gel, this ultra flexible, waterproof, and extra durable super bright LED strip can be bent to any shape and angle to fit your ideal lighting application. For indoor and outdoor use, this can be used for lighting up signs, light boxes, boats, motorcycles, automobiles, airplanes, under cabinets, hallways, architectural lighting, and much more.

- 96 LEDs on each 37.7" long strip
- Simple to install and clean
- Color: white translucent silicone gel casing
- Power requirement: 12V @ 640mA (recommend P/N 2006887, pg 27)

\* Web Code: BDZ

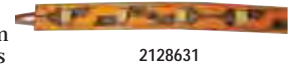


Part No.	Mfr. Part No.	Color	Brightness (mcd)	Wavelength (nm)	1	5	25
2112671	FS-Red	Red	500	630 .....	\$19.95	\$17.95	\$15.95
2112698	FS-Blue	Blue	750	427 .....	24.95	22.95	20.95
2112719	FS-White	White	3500	— .....	29.95	26.95	23.95

## LED SMD Light Ribbons

These full-color ribbon LED strips are flexible and super bright! They are designed for use in interior applications. Their small size and modular design give them flexibility to install in confined spaces such as pelmets, coffers and coves. The 120° wide angle beam ensures that the surface being illuminated is evenly bright. The self-adhesive backing tape is convenient for furniture, room and lighting/display designs.

- Printed circuit board thickness: 0.2mm
- Power requirement: 12VDC @ 300mA (P/N 2006879, pg 27)

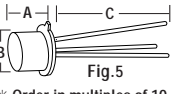
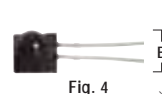
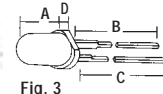
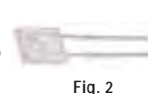
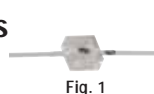


Part No.	Mfr. Part No.	Color	# of LEDs/meter	Package/reel	1	5
2128622	5060RGB15B12N1-12	RGB	30	5 meters .....	\$99.95	\$89.95
2128631	3528W60K12N-12	Pure white	60	2.5 meters .....	59.95	54.95

## Infrared & Visible Light Emitters & Detectors

- Use for remote control and/or for fiber optics

\* Web Code: VAP



\* Order in multiples of 10

Part No.	Product No.	*Mfr.	Fig.	Description	Size	Diameter inch/mm	Dimensions (inches)				Vf @ If	Wavelength nm	mWatts	Pricing		
							A	B	C	D				1	10	100
2099403	PS5022	STA	1	Phototransistor	Dome	0.06/1.7	0.13	0.35	0.35	—	5.0 @ 20mA	880	1	*	\$ .15	\$ .12
790057	LTE-302	LTO	2	Infrared emitter diode (GaAs) side look	Dome	0.06/1.5	0.23	0.63	0.63	0.18	1.2 @ 20mA	940	40	*	.19	.15
112150	LIR2043	LIG	3	Infrared emitter diode (GaAs)	T1	0.125/3	0.18	0.95	0.98	0.03	1.2 @ 20mA	940	5	*	.19	.15
372710	UT0383-41-940	LED	3	Infrared emitter diode (GaAs)	T1	0.125/3	0.16	0.88	0.94	0.04	1.3 @ 50mA	940	13	.39	.35	.29
1950825	L-34F3CS	♦	3	Infrared emitter diode (GaAs)	T1	0.125/3	0.20	1.00	1.06	0.04	1.2 @ 20mA	940	80	.39	.35	.29
112176	LPT2023	LIG	3	Infrared phototransistor	T1	0.12/3	0.18	0.95	0.98	0.03	30 @ 0.1A	940	100	.39	.35	.29
2125261	TSHA4400	VSH	3	Infrared emitter diode (GaAlAs) water clear	T1	0.114/2.9	0.13	0.90	1.00	0.04	1.5 @ 100mA	875	20	.39	.35	.29
2120410	RPT-38PB3F	RHM	3	Phototransistor	T1	0.125/3	0.18	0.95	0.98	0.03	5 @ 30mA	800	150	.25	.19	.15
1872265	OP505A	OPT	3	Infrared silicon phototransistor	T1	0.125/3.2	0.20	0.50	0.50	0.03	30VBRCEO @100µA	850	100	.79	.65	.59
1950649	BPV22NF(L)	OPT	4	High speed photo diode	T1 3/4	0.195/5	0.24	1.00	1.00	—	1.0 @ 50mA	940	215	.65	.59	.49
1623349	SFH484-2	SYL	3	Infrared emitter diode	T1 3/4	0.197/5	0.30	0.50	1.14	1.07	1.5 @ 100mA	880	25	.79	.69	.59
372737	UT1883-81-880	LED	3	Infrared emitter diode (GaAs) water clear	T1 3/4	0.200/5	0.30	0.88	0.94	0.04	1.5 @ 50mA	880	16	.35	.29	.25
372745	UT1885-81-880	LED	3	Infrared emitter diode (GaAs) blue clear	T1 3/4	0.200/5	0.30	0.88	0.94	0.04	1.5 @ 50mA	880	16	.39	.35	.29
1872151	OP290A	OPT	3	Infrared emitter diode	T1 3/4	0.195/5	0.30	0.75	1.00	0.04	4.0 @ 1.5A	890	333	1.09	.89	.69
106526	LVR33333	LIG	3	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.34	0.78	0.84	0.04	1.2 @ 20mA	940	8	*	.19	.15
372762	UT1883-81-940	LED	3	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.30	0.88	0.94	0.04	1.3 @ 50mA	940	16	.35	.29	.19
1950622	TSHA5502	VSH	3	Infrared emitter diode (GaAlAs)	T1 3/4	0.200/5	0.30	0.97	1.04	0.04	1.5 @ 1mA	870	210	.59	.49	.39
2100224	LTE-3371LT	LTO	3	Infrared emitter diode (GaAlAs)	T1 3/4	0.197/5	0.30	0.98	1.02	0.04	1.25 @ 50mA	940	150	.39	.35	.29
373001	UT1893-91-0125	LED	3	Infrared phototransistor	T1 3/4	0.200/5	0.34	0.88	0.94	0.04	30 @ 0.1A	870	20	.35	.29	.25
2129385	UT1893-45-0125	LED	3	Infrared phototransistor	T1 3/4	0.200/5	0.34	0.88	0.94	0.04	30 @ 0.1A	860/940	20	.35	.29	.25
1872441	OP999	OPT	3	PIN silicon photodiode	T1 3/4	0.205/5.3	0.31	0.69	0.75	0.04	1.2 @ 1mA	200	100	.99	.89	.79
120221	BPW77NA	♦	5	NPN phototransistor	TO-18	0.18/4.69	0.24	0.19	0.52	0.01	70VCEO @ 50mA	850	250	1.95	1.75	1.49

## 7, 14 & 16-Segment LED Displays

### Single Digit 7-Segment Numeric LED Displays

See Page 30 for photos

\* Web Code: PBW

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
											1	10	100
24732	MCD	GNS-3011BH-11	0.30"	Red	CA	10	1.9 @ 20	0.3 @ 20	697	LHDP/RHDP	\$.99	\$.89	\$.75
24783	MCD	GNS-3011CH-11	0.30"	Red	CC	10	2.1 @ 20	2.5 @ 20	697	LHDP/RHDP	.99	.89	.75
24782	Ligitek	LSD3211-11	0.30"	Red	CC	10	2.1 @ 20	2.5 @ 20	697	LHDP/RHDP	.99	.89	.75
24740	Ligitek	LSD3221-11	0.30"	Red	CA	11	2.1 @ 20	2.5 @ 20	697	LHDP/RHDP	.99	.89	.75
334984	LED	UA3051-12	0.30"	Red	CA	11	2.1 @ 20	0.8 @ 10	700	RHDP	.85	.75	.65
334800	LED	UC3051-11	0.30"	Red	CC	10	2.1 @ 20	0.8 @ 10	700	RHDP	.85	.75	.65
2125237	QT Opto	MANC3940	0.30"	Hi-eff Red	CC	10	2.0 @ 20	5.4 @ 20	635	RHDP	.99	.85	.69
1548027	Avago	5082-7611	0.30"	Hi-eff Red	CA	11	2.1 @ 20	0.8 @ 5	635	RHDP	2.75	2.49	2.25
789953	Lite-On	LSHD-7501	0.30"	AllnGap Red	CA	10	2.1 @ 20	12 @ 10	632	RHDP	.99	.89	.79
2082265	ValuePro	MAN3620A	0.30"	Orange	CA	11	2.5 @ 20	3.3 @ 10	630	LHDP	.69	.59	.45
335011	ValuePro	UA3041-12	0.30"	Orange	CA	11	2.1 @ 20	3.3 @ 10	635	RHDP	.79	.69	.55
320469	ValuePro	UA3031-16-EWRN	0.30"	Yellow	CA	11	3.0 @ 20	2.3 @ 10	585	LHDP/RHDP	.89	.79	.65
2079226	Ligitek	LSD3352-20/RP4	0.32"	Green	CC	14	2.1 @ 20	3.5 @ 10	565	RHDP	.89	.79	.69
2075698	Ligitek	LSD3362-20/RP4	0.32"	Green	CA	14	2.1 @ 20	3.5 @ 10	565	RHDP	.89	.79	.69
1955714	Lite-On	LTS-367R	0.36"	Red	CC	10	1.7 @ 20	0.5 @ 10	655	RHDP	.89	.79	.65
1955722	Lite-On	LTS-4801R	0.40"	Red	CA	10	1.7 @ 20	0.5 @ 10	655	RHDP	.89	.79	.65
2125245	Vishay	TDSR3163-G	0.40"	Red	CC	10	1.6 @ 30	0.18 @ 30	660	RHDP	.75	.65	.55

\* CA-Common Anode/CC-Common Cathode # LHDP-Left Hand Decimal Point/RHDP-Right Hand Decimal Point

7-Segment Numeric LED Displays continued on next page

\* LED = Ledtech | LIG = Ligitek | LTO = Lite-On | OPT = Optek | RHM = Rohm | STA = Stanley | SYL = Sylvania | VSH = Vishay | ♦ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# 7, 14 & 16-Segment LED Displays

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE



## 7, 14 & 16-Segment LED Displays (Continued)

★ Web Code: PBW

### Soldering:

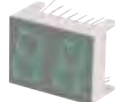
- Soldering bath: not more than 5 seconds @ 260°C
- Soldering iron: not more than 3 seconds @ 300°C under 30W



Single Digit RHDP (334984)



Single Digit RHDP (14-seg.) (2076703)



2-Digit RHDP (2005358)



2-Digit RHDP (1955933)



3-Digit RHDP (1956493)



10-Bar Graph (697477)

### Single Digit 7-Segment Numeric LED Displays (Continued)

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
											1	10	100
1955731	Lite-On	LTS-4301R	0.40"	Red	CC	10	1.7 @ 20	0.5 @ 10	655	RHDP	\$ .89	\$ .79	\$ .65
334844	ValuePro	UC4041R-11	0.40"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.89	.79	.65
2005411	Lite-On	LTS-4980AHR	0.40"	Hi-eff Red	CC	14	2.1 @ 20	2.2 @ 10	635	RHDP	.59	.49	.39
1996081	Lite-On	LTS-4510AG <sup>R</sup>	0.40"	Green	CA	14	2.1 @ 20	2.2 @ 10	565	RHDP	.79	.69	.55
2075719	Ligitek	LSD4012-20A <sup>R</sup>	0.40"	Green	CC	14	2.1 @ 20	2.5 @ 10	565	RHDP	.79	.69	.55
2075727	Ligitek	LSD401SBKS-20A <sup>R</sup>	0.40"	Blue	CC	14	3.5 @ 20	12.8 @ 10	460	RHDP	2.59	2.35	2.09
17209	MCD	GNS-5011BH-11	0.50"	Red	CA	10	2.1 @ 20	0.9 @ 20	697	RHDP	1.09	.99	.89
17187	Ligitek	LSD5051-11 <sup>R</sup>	0.50"	Red	CC	10	2.1 @ 20	0.9 @ 20	697	RHDP	1.09	.99	.89
1955749	Lite-On	LTS-5301AR	0.56"	Red	CA	10	1.7 @ 20	0.6 @ 10	655	RHDP	.99	.89	.79
335090	ValuePro	UA5651-11 <sup>R</sup>	0.56"	Red	CA	10	2.1 @ 20	0.8 @ 10	700	RHDP	1.09	.99	.89
1955765	Lite-On	LTS-6760P	0.56"	Bright Red	CA	10	2.1 @ 20	0.95 @ 10	697	RHDP	1.19	1.09	.99
334896	ValuePro	UC5641R-11 <sup>R</sup>	0.56"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.99	.89	.79
335101	ValuePro	UA5641R-11 <sup>R</sup>	0.56"	Hi-eff Red	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	.99	.89	.79
1584335	Avago	HDSP-5501-GH000 <sup>R</sup>	0.56"	Hi-eff Red	CA	10	2.1 @ 20	2.8 @ 10	635	RHDP	1.95	1.75	1.49
104213	Ligitek	LSD5124-10 <sup>R</sup>	0.56"	Orange Red	CA	10	2.0 @ 20	2.4 @ 20	635	RHDP	.99	.89	.79
335312	ValuePro	UA5641-11-EWRN <sup>R</sup>	0.56"	Orange	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	.99	.89	.79
334880	ValuePro	UC5641-11-EWRNR <sup>R</sup>	0.56"	Orange	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.99	.89	.79
1955773	Lite-On	LTS-6680E	0.56"	Orange	CC	10	2.1 @ 20	2.4 @ 10	630	RHDP	.99	.89	.79
1955790	Lite-On	LTS-6860Y	0.56"	Yellow	CA	10	2.1 @ 20	2.4 @ 10	585	RHDP	.99	.89	.79
334862	ValuePro	UC5621-11 <sup>R</sup>	0.56"	Green	CC	10	2.1 @ 20	2.9 @ 10	567	RHDP	.99	.89	.79
2075735	Ligitek	LSD5122-20/A <sup>R</sup>	0.56"	Green	CA	10	2.1 @ 20	4.5 @ 10	565	RHDP	.99	.89	.79
2075751	Ligitek	LSD5112-20/A <sup>R</sup>	0.56"	Green	CC	10	2.1 @ 20	4.5 @ 10	565	RHDP	.99	.89	.79
2075760	Ligitek	LSD512SBKS-20 <sup>R</sup>	0.56"	Blue	CA	10	3.5 @ 20	12.8 @ 10	460	RHDP	2.49	2.25	1.95
1955829	Lite-On	LTS-3403AP	0.80"	Red Gap	CC	18	2.1 @ 20	0.95 @ 10	697	LHDP/RHDP	1.09	.99	.89
18753	Ligitek	LSD8151-10 <sup>R</sup>	0.80"	Red	CC	13	2.1 @ 20	1.0 @ 20	697	RHDP	1.25	1.15	.99
1955811	Lite-On	LTS-3401LC	0.80"	Red Gap	CA	18	1.8 @ 20	8.0 @ 10	660	LHDP/RHDP	1.09	.99	.89
18737	Ligitek	LSD8164-20 <sup>R</sup>	0.80"	Orange Red	CA	13	1.6 @ 20	0.9 @ 20	655	RHDP	1.25	1.15	.99
2005462	Lite-On	LTS-3401LE	0.80"	Yellow	CA	18	2.1 @ 20	2.4 @ 10	630	LHDP/RHDP	1.25	1.15	.99
1955837	Lite-On	LTS-3403LY	0.80"	Yellow	CC	18	2.1 @ 20	2.4 @ 10	585	LHDP/RHDP	1.25	1.15	.99
2005489	Lite-On	LTS-3401LG	0.80"	Green	CA	18	2.1 @ 20	2.4 @ 10	565	LHDP/RHDP	1.25	1.15	.99
176559	Various	C8021-1	0.80"	Green	CC	13	2.0 @ 20	0.9 @ 20	568	RHDP	1.25	1.15	.99
97172	Ligitek	LSD10061-10 <sup>R</sup>	1.0"	Red	CA	10	2.1 @ 20	2.0 @ 20	697	RHDP	1.75	1.49	1.25
308161	Ledtech	LA2541-24EWRN	1.0"	Orange	CA	10	4.2 @ 20	5.2 @ 10	635	RHDP	1.75	1.49	1.25
97199	Ligitek	LSD23265-10 <sup>R</sup>	2.24"	Red	CA	10	1.7 @ 20	21 @ 20	660	RHDP	4.49	3.95	3.59
97201	Ligitek	LSD23255-10 <sup>R</sup>	2.24"	Red	CC	10	1.7 @ 20	21 @ 20	660	RHDP	4.49	3.95	3.59
105591	Ligitek	LSD40054-20 <sup>R</sup> †	4.00"	Orange Red	CC	10	2.0 @ 20	18 @ 20	635	RHDP	8.95	7.95	7.15

### Single Digit 14 & 16-Segment Alphanumeric LED Displays

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
											1	10	100
2076703	Ligitek	LSD3E62-20/A <sup>R</sup> §	0.39"	Green	CA	16	2.1 @ 20	3.05 @ 10	565	RHDP	\$1.69	\$1.39	\$1.19
2076691	Ligitek	LSD3E6SBKS-20/A <sup>R</sup> §	0.39"	Blue	CA	16	3.5 @ 20	7.2 @ 10	475	RHDP	3.95	3.59	3.19
308152	Ledtech	LA5041R-11BRRRN†	0.50"	Orange	Alphanumeric	18	2.1 @ 20	7.4 @ 10	635	RHDP	1.95	1.75	1.49
2125253	King Bright	PSC05-11HWA†	0.50"	Bright Red Gap	CC	18	2.0 @ 20	1.9 @ 10	700	RHDP	2.95	2.75	2.49

\* CA-Common Anode/CC-Common Cathode # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point † 5 diodes per segment § 14 segment † 16 segment

2-Digit LED Displays continued on next page

## Quick and Easy Search

Product Search:



Advanced Search

Search easily for products by entering the manufacturer number, Jameco part number or keyword.

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

## 7, 14 & 16-Segment LED Displays (Continued)

### 2-Digit 7-Segment Numeric LED Displays

Figure images on previous page

\*Web Code: PBW

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
											1	10	100
1955781	Lite-On	LTD-2701WC	0.28"	Red	CC	10	1.8 @ 20	3.1 @ 5	660	RHDP	\$1.25	\$1.09	\$ .99
1955845	Lite-On	LTD-383E-R2	0.30"	Red Orange	CA	16	2.0 @ 20	1.6 @ 10	630	RHDP	1.25	1.09	.99
1955853	Lite-On	LTD-482P-YQ	0.40"	Bright Red	CA	16	2.1 @ 20	0.8 @ 10	697	RHDP	1.25	1.09	.99
2075786	Ligitek	LDD4062-20/A	0.40"	Green	CA	16	2.1 @ 20	3.05 @ 10	565	RHDP	1.25	1.09	.99
1955861	Lite-On	LTD-432GC	0.40"	Green	CC	16	2.1 @ 20	1.1 @ 10	565	No DP	1.49	1.35	1.15
2005340	Lite-On	LTD-4608B	0.40"	Blue	CA	10	3.8 @ 20	3.6 @ 10	428	RHDP	3.95	3.59	3.39
200379	Rohm	LB602VAGI	0.56"	Red	CA	18	2.0 @ 10	16 @ 10	650	RHDP	1.25	1.09	.99
24715	Ligitek	LDD5121-20	0.56"	Red	CA	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.59	1.39	1.19
2125481	China Semi	SD-525R	0.56"	Red	CC	18	1.7 @ 20	1.0 @ 20	655	RHDP	1.49	1.25	.99
24723	Ligitek	LDD5111-11	0.56"	Red	CC	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.59	1.39	1.19
24694	Ligitek	LDD5124	0.56"	Orange Red	CA	18	2.0 @ 20	2.4 @ 20	635	RHDP	1.49	1.29	1.09
24707	Ligitek	LDD5114-20	0.56"	Orange Red	CC	18	2.0 @ 20	2.4 @ 20	635	RHDP	1.59	1.39	1.19
790031	Lite-On	LTD-6940HR	0.56"	Hi-eff Red	CC	18	2.0 @ 20	2.4 @ 10	623	RHDP	1.69	1.49	1.25
200539	Arctic	ELD556YWA	0.56"	Yellow	CA	18	2.0 @ 20	1.9 @ 10	590	RHDP	1.25	1.09	.99
790022	Lite-On	LTD-6410AG	0.56"	Green	CA	18	2.1 @ 20	2.4 @ 10	565	RHDP	1.59	1.39	1.19
2005358	Lite-On	LTD-5623BG	0.56"	Green	CC	18	2.1 @ 20	2.4 @ 10	565	RHDP	1.59	1.39	1.19
2005366	Lite-On	LTD-6440G	0.56"	Green	CC	18	2.1 @ 20	2.4 @ 10	570	RHDP	1.59	1.39	1.19
2075794	Ligitek	LDD512SBKS-20/A	0.56"	Blue	CA	18	3.5 @ 20	58 @ 10	475	RHDP	4.95	4.49	3.95

### 3-Digit 7-Segment Numeric LED Displays

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
											1	10	100
335055	ValuePro	UN4043-13 EWRS	0.40"	Orange	CA	12	2.1 @ 20	3.3 @ 10	635	RHDP	\$2.49	\$2.25	\$1.95
1956493	Lite-On	LTC561R	0.56"	Red	CA	12	1.7 @ 20	0.6 @ 10	665	RHDP	2.49	2.25	1.95
2125229	Ledtech	LN5643R-11	0.56"	Orange	CA	12	2.1 @ 20	4.5 @ 10	630	RHDP	1.95	1.75	1.49
308224	Ledtech	LM5643R-11RRRN	0.56"	Orange	CC	12	2.1 @ 20	7.4 @ 20	630	RHDP	2.49	2.25	1.95
225963	ValuePro	KW3-562A2B	0.56"	Green	CA	28	2.2 @ 20	15 @ 20	568	RHDP	2.49	2.25	1.95

### 2-Digit 14 & 16-Segment Alphanumeric LED Displays

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
											1	10	100
2005382	Lite-On	LTP-4323P	0.40"	Bright Red	CC	20	2.1 @ 20	0.75 @ 10	697	RHDP	\$1.95	\$1.75	\$1.49
2005391	Lite-On	LTP-4323JD	0.40"	AllnGap Hyper Red	CC	20	2.1 @ 20	0.65 @ 10	650	RHDP	2.49	2.25	1.95
1955870	Lite-On	LTP-4323G	0.40"	Green	CC	20	2.1 @ 20	2.0 @ 10	569	RHDP	2.49	2.25	1.95
1955896	Lite-On	LTP-3786S-03	0.54"	AlGaAs Red	CA	18	1.8 @ 20	4.0 @ 10	660	RHDP	2.49	2.25	1.95
1955909	Lite-On	LTP-3785E-01	0.54"	Red Orange	CA	18	2.0 @ 20	2.0 @ 10	630	RHDP	2.95	2.49	2.19
1955933	Lite-On	LTP-8647AP	0.54"	Bright Red	↑↑	18	12 @ 8.5	0.9 @ 0.4	697	RHDP	2.95	2.49	2.19
1955917	Lite-On	LTP-3785G-01	0.54"	Green	CA	18	2.1 @ 20	2.0 @ 10	565	RHDP	1.95	1.75	1.49
335222	ValuePro	UA5422-11 EWRS	0.54"	Green	CA	18	2.1 @ 20	2.9 @ 10	567	RHDP	2.49	2.25	1.95
2075807	Ligitek	LDD525SBKS-20/A	0.56"	Blue	CC	18	3.5 @ 20	10.5 @ 10	460	RHDP	7.95	6.95	6.25

### 4-Digit 7-Segment Numeric LED Displays

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
											1	10	100
2006810	Ligitek	LFD2121-20/A-PF	0.28"	Red	CA	12	2.1 @ 20	0.8 @ 10	697	RHDP	\$2.49	\$2.25	\$1.95
1956549	Lite-On	LTC-2623G	0.28"	Green	CA	16	2.1 @ 20	2.0 @ 10	575	RHDP	2.95	2.49	2.19
2006828	Ligitek	LFD4161-20/A-PF	0.40"	Red	CA	16	2.1 @ 20	0.8 @ 10	697	RHDP	2.95	2.49	2.19
1956506	Lite-On	LTC-5837E	0.52"	Red Orange	CA	40	2.0 @ 20	2.2 @ 10	630	RHDP	2.95	2.49	2.19
2006836	Ligitek	LFD5221-20/A-PF	0.56"	Red	CA	12	2.1 @ 20	1.0 @ 10	697	RHDP	2.95	2.49	2.19
2005711	Lite-On	LTC-5653G-01	0.56"	Green	CA	12	2.1 @ 20	2.4 @ 10	565	RHDP	2.49	2.25	1.95
1956573	Lite-On	LTC-5848G	0.56"	Green	CA	36	2.1 @ 20	2.4 @ 10	565	RHDP##	2.95	2.49	2.19
335194	ValuePro	UM5624-11-EWRS	0.56"	Green	CC	12	2.1 @ 20	2.9 @ 10	567	RHDP	2.95	2.49	2.19
11360	Lite-On	LTC-5851Y	0.56"	Yellow	CA	36	2.1 @ 20	2.1 @ 10	585	RHDP##	2.95	2.49	2.19

\* CA-Common Anode/CC-Common Cathode # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point ## 1st & 2nd digits only † 16 segment \$ 14 segment †† Built in M5450 MOS IC driver

## LED Bar Graph Arrays (10 Elements)

\*Web Code: LBW

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Number of Elements	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing		
										1	10	100
697477	Lite-On	LTA-1000HR	0.20"	Hi-eff. Red	10	20	2.0 @ 20	2.0 @ 10	635	\$1.05	\$ .85	\$ .69
334529	ValuePro	UL10000-HR-RRAK	0.20"	Red	10	20	2.1 @ 20	1.6 @ 10	635	1.29	1.09	.89
334537	ValuePro	UL10000-Y-EWAK	0.20"	Yellow	10	20	2.1 @ 20	1.1 @ 10	585	1.19	.99	.79
2115531	Ledtronics	LBG1000G3B	0.20"	Hi-eff Green	10	20	2.1 @ 10	5 @ 10	565	1.29	1.19	.89
697469	Lite-On	LTA-1000G	0.20"	Green	10	20	2.1 @ 20	2.0 @ 10	565	1.19	.99	.79
334511	ValuePro	UL10000-E-EWAK	0.20"	Green	10	20	2.1 @ 20	1.4 @ 10	567	1.19	.99	.79
1551402	Avago	HDSP-4832	0.20"	Hi-eff. Red, Yellow, Green	10	20	2.1/2.2 @ 20; 2.1 @ 10	3.5/1.9/1.9 @ 10	635/583/566	6.95	6.25	5.59

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Light Bars & Dot Matrix Displays

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE



## Light Bars



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

★ Web Code: LTB

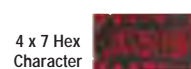
Part No.	Manufacturer	Product No.	Illuminated Color	Light Emitting Area	Package Fig.	Pins/ Leads	Typical Forward Volt	Typical Luminosity	Wavelength nm	Pricing		
										1	10	100
1954965	Lite-On	LTL-2600HR	Hi-eff Red	.350" x .150" (2)	1	8	2.1 @ 20	4200	635	\$ .59	\$ .49	\$ .39
1954973	Lite-On	LTL-2800G	Green	.350" x .150" (2)	1	8	2.1 @ 20	4200	565	.59	.49	.39
790188	Lite-On	LTL-2620HR	Hi-eff Red	.350" x .150" (4)	2	16	2.1 @ 20	4200	635	.59	.49	.39
1955001	Lite-On	LTL-2720Y	Yellow	.350" x .150" (4)	2	16	2.1 @ 20	4200	585	.59	.49	.39
334650	Ledtech	UB3541R-11-NRAK	Orange	.350" x .350" (1)	3	16	2.1 @ 20	7800	635	.99	.85	.69
334668	Ledtech	UB3531R-11-NYAK	Yellow	.350" x .350" (1)	3	16	2.1 @ 20	5500	585	1.09	.89	.75
334676	Ledtech	UB3521R-11-NGAK	Green	.350" x .350" (1)	3	16	2.1 @ 20	6800	567	1.25	.99	.89
2005315	Lite-On	LTL-2350HR	Hi-eff Red	.750" x .150" (1)	4	8	2.1 @ 20	800	635	.99	.89	.79
790153	Lite-On	LTL-2450Y	Yellow	.750" x .150" (1)	4	8	2.1 @ 20	800	585	.59	.49	.39
2005323	Lite-On	LTL-2685HR	Hi-eff Red	.350" x .750" (1)	5	16	2.1 @ 20	1600	635	.99	.89	.79
2005331	Lite-On	LTL-2885G	Green	.350" x .750" (1)	5	16	2.1 @ 20	1600	565	.99	.89	.79

## LED Dot Matrix with Decoder Driver (4 x 7 & 5 x 7 Arrays) Alphanumeric & Hexidecimal

- Supply voltage: 5V



5 x 7 Alpha Character



4 x 7 Hex Character

★ Web Code: HAV

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	No. of Characters	Array Polarity	Pins/ Leads	Typical mcd	Wavelength nm	Pricing		
										1	10	100
1551269	Avago	HDSP-2532	0.18"	Hi-efficiency Red	8 (1 x 8)	5 x 7 Alpha	30	7.5	635	\$29.95	\$26.95	\$23.95
1551251	Avago	HDSP-2531	0.18"	Yellow	8 (1 x 8)	5 x 7 Alpha	30	7.5	583	29.95	26.95	23.95
1584301	Avago	HDSP-2111	0.20"	Yellow	8 (1 x 8)	5 x 7 Alpha	28	7.5	583	29.95	26.95	23.95
1551120	Avago	HDLG-2416	0.20"	Green	4 (1 x 4)	5 x 7 Alpha	18	5.6	568	19.95	18.95	17.95
32951	Texas Instruments	TIL311	0.27"	Red	1	4 x 7 Hex	11	0.1	660	19.95	17.95	15.95

## LED Dot Matrix Displays (5 x 7 & 5 x 8 Arrays)



5 x 7 Dot Matrix



5 x 8 Dot Matrix

★ Web Code: HAV

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Array Polarity*	Pins/ Leads	Typical VF @ IF (mA)	Typical mcd @ mA	Wavelength nm	Pricing		
										1	10	100
218843	Various	CSM57041T-11	0.7"	Red	5 x 7 CC/AR	12	1.8 @ 20	8.0 @ 20	660	\$1.49	\$1.35	\$1.09
2005420	Lite-On	LTP-747C	0.7"	AlGaAs Red	5 x 7 AC/CR	12	1.8 @ 20	5.8 @ 80	660	1.49	1.35	1.09
2005454	Lite-On	LTP-747E	0.7"	Orange	5 x 7 AC/CR	12	2.0 @ 20	2.0 @ 80	630	1.49	1.35	1.09
2005497	Lite-On	LTP-757G	0.7"	Green	5 x 7 CC/AR	12	2.1 @ 20	2.0 @ 80	565	1.49	1.35	1.09
1955061	Lite-On	LTP-1457AHR	1.2"	Hi-efficiency Red	5 x 7 AC/CR	14	2.0 @ 20	4.0 @ 80	635	1.95	1.75	1.49
1955079	Lite-On	LTP-1557AHR	1.2"	Hi-efficiency Red	5 x 7 CC/AR	14	2.1 @ 20	4.0 @ 80	565/630	1.95	1.75	1.49
2005518	Lite-On	LTP-1557AKA	1.2"	AlInGaP Red Orange	5 x 7 CC/AR	14	2.05 @ 20	3.8 @ 80	621	1.95	1.75	1.49
1955087	Lite-On	LTP-1257AA-01	1.2"	Green/Red Orange	5 x 7 AC/CR	20	2.1/2.0 @ 20	4.0 @ 80	565/630	1.95	1.75	1.49
1955095	Lite-On	LTP-1057AE	1.24"	Red Orange	5 x 7 AC/CR	14	2.0 @ 20	4.0 @ 80	630	1.95	1.75	1.49
2005745	Lite-On	LTP-1057AGNB	1.24"	Green	5 x 7 AC/CR	14	2.1 @ 20	4.0 @ 80	565	1.95	1.75	1.49
1955108	Lite-On	LTP-1057AHR	1.54"	Hi-efficiency Red	5 x 7 AC/CR	14	2.0 @ 20	4.0 @ 80	635	1.95	1.75	1.49
308144	Ledtech	LT5763-M1EWRN	1.54"	Red/Green	5 x 7 AC/CR	20	1.7/2.1 @ 20	10.8/20 @ 10	660/567	2.95	2.49	1.95
1955132	Lite-On	LTP-2157AHR-RD	2.0"	Hi-efficiency Red	5 x 7 CC/AR	14	2.0 @ 20	4.8 @ 80	635	1.95	1.75	1.49
2005753	Lite-On	LTP-2057AE	2.0"	Orange	5 x 7 AC/CR	14	2.0 @ 20	4.8 @ 80	630	1.95	1.75	1.49
1955116	Lite-On	LTP-2157AE	2.0"	Orange	5 x 7 CC/AR	14	2.0 @ 20	4.8 @ 80	630	1.95	1.75	1.49
335290	ValuePro	UJ2041-21 EWRN	2.0"	Orange	5 x 7 CC/AR	14	2.1 @ 20	6.0 @ 10	630	1.95	1.75	1.49
206560	Lite-On	LTP-2157AG	2.0"	Green	5 x 7 CC/AR	14	2.1 @ 20	4.8 @ 80	565	1.95	1.75	1.49
2077351	Lite-On	LTP-2657AA	2.0"	Green/Red Orange	5 x 7 AC/CR	28	2.1/2.0 @ 20	4.8 @ 80	565/630	2.95	2.49	1.95
1955159	Lite-On	LTP-2757AA	2.0"	Green/Red Orange	5 x 7 CC/AR	28	2.1/2.0 @ 20	4.8 @ 80	565/630	1.95	1.75	1.49
2005761	Lite-On	LTP-3057AC	3.0"	AlGaAs Red	5 x 7 AC/CR	14	3.6 @ 20	20 @ 80	660	2.95	2.49	1.95
1955167	Lite-On	LTP-4157AE	4.0"	Orange	5 x 7 CC/AR	14	4.0 @ 20	96 @ 80	630	3.95	2.95	2.49
1955175	Lite-On	LTP-4157AG	4.0"	Green	5 x 7 CC/AR	14	4.2 @ 20	96 @ 80	565	2.95	2.59	1.95
1955183	Lite-On	LTP-2158AHR	2.3"	Hi-efficiency Red	5 x 8 CC/AR	14	2.1 @ 20	4.0 @ 48	635	1.95	1.75	1.49
1955191	Lite-On	LTP-2158AY	2.3"	Yellow	5 x 8 CC/AR	14	2.1 @ 20	4.8 @ 80	585	2.95	2.59	1.95
1955204	Lite-On	LTP-2458AA-NB	2.3"	Green/Red Orange	5 x 8 AC/CR	28	2.1/2.0 @ 20	4.8 @ 80	565/630	2.95	2.59	1.95
1955212	Lite-On	LTP-2558AA	2.3"	Green/Red Orange	5 x 8 CC/AR	28	2.1/2.0 @ 20	4.8 @ 80	565/630	2.95	2.59	1.95

\* AC-Anode Column / AR-Anode Row / CC-Cathode Column / CR-Cathode Row

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.





## Color TFT (Thin Film Transistor) Modules

★ Web Code: TFT

- White LED backlight
  - Transmissive TFT
  - Wide viewing angle
  - High brightness LED backlights
- 2118715: Recommend NHD-FFC37 adapter P/N 2122731 (see web)  
 2118723: Recommend NHD-COG14-36 adapter P/N 2122749 (see web)  
 2118731: Recommend NHD-FFC20-1 adapter P/N 2122757 (see web),  
 NHD-3.5-320240MF-20, P/N 2122765 controller board (see web),  
 digital RGB interface (6.5MHz)  
 2118740 16-bit digital input data, touch panel type, recommend  
 NHD-4.3-480272MF-20 controller board P/N 2122773 (see web)  
 2118758: Recommends NHD-FFC20-1 adapter P/N 2122757 (see web)

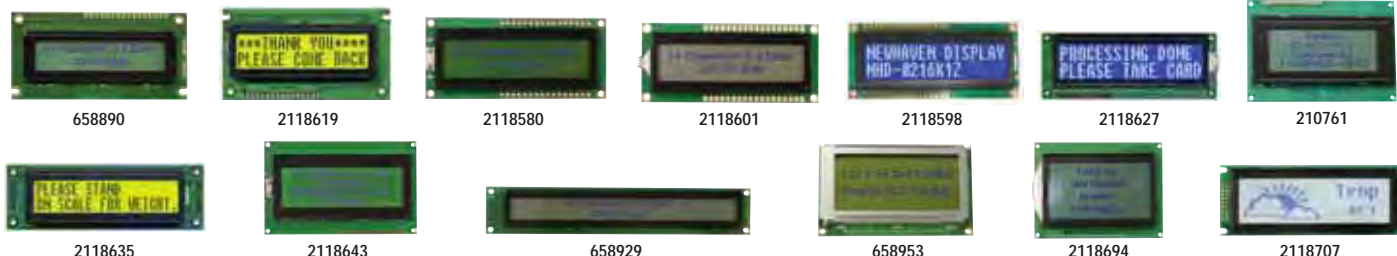


Part No.	Mfr.	Mfr. Part No.	Pixels (Portrait Mode)	Diagonal View	Input Data (Parallel)	Input Voltage (V @ mA)	Built-In Controller	Module Size (W" x H" x D")	Display Size (W" x H")	Pricing		
										1	5	25
2118715	Newhaven	NHD-1.8-128160ZF-CTXL#-R	128 x 160	1.8"	8-bit	2.8 @ 25.5	IL9163	1.4 x 1.9 x 0.10	1.10 x 1.40	\$16.95	\$14.95	\$13.45
2118723	Newhaven	NHD-2.4-240320SF-CTX#-R	240 x 320	2.4"	8-bit or 16-bit	2.8 @ 7	IL9328	1.7 x 2.4 x 0.10	1.50 x 1.90	24.95	22.49	19.95
2118731	Newhaven*	NHD-3.5-320240MF-ATXL#-1-R	320 x 240	3.5"	24-bit	3.3 @ 8.6	—	3.0 x 2.5 x 0.11	2.80 x 2.10	29.95	26.95	24.25
2118740	Newhaven	NHD-4.3-480272MF-ATXL#-T-1-R	480 x 272	4.3"	24-bit	3.3 @ 32	—	4.2 x 2.7 x 0.15	3.70 x 2.10	44.95	42.95	39.95
2118758	Newhaven*	NHD-5.7-640480WF-CTXL#-T-R	640 x 480	5.7"	24-bit	3.3 @ 190	SSD1963	4.9 x 3.9 x 0.15	4.50 x 3.40	129.95	123.49	116.95

\* Landscape mode

## Parallel LCD Displays

★ Web Code: GCG



Part No.	Mfr.	Mfr. Part No.	Characters x Lines	Character Font	Input Data	Input Voltage	Letters-Backlight	Notes†	Module Size (W" x H" x D")	Display Size (W" x H")	Pricing		
											1	5	25
137373	Varitronix	MDLS16166D	16 x 1	5 x 8	8-bit	5.0V @ 0.6mA	Black-None	2, 3	3.1 x 1.4 x 0.4	2.5 x 0.5	\$7.95	\$6.95	\$6.25
618003	Hantronic	HDM716216H-5-3005	16 x 2	5 x 7	8-bit	5.0V @ 1.25mA	Black-None	—	3.2 x 1.4 x 0.3	2.5 x 0.5	8.95	7.95	6.95
658890	Hantronic	HDM716216H-B-P00P	16 x 2	5 x 7	8-bit	5.0V @ 2.2mA	Black-None	3	3.3 x 1.7 x 0.4	2.4 x 0.6	9.95	8.95	7.95
658881	Hantronic	HDM716216H-4-H0AF	16 x 2	5 x 7	8-bit	5.0V @ 2.2mA	Black-None	3	4.8 x 1.7 x 0.4	3.9 x 0.9	8.95	7.95	6.95
171716	ValuePro	AC-162A-R	16 x 2	5 x 8	8-bit	5.5V @ 1.5mA	Black-Yellow/Green	2, 3	3.4 x 1.2 x 0.5	2.5 x 0.7	19.95	17.95	15.95
1946068	Tinsharp	C-1602A-1YN	16 x 2	5 x 8	8-bit	5.0V @ 1.0mA	Black-None	—	2.8 x 1.4 x 0.4	2.6 x 0.6	9.95	8.95	7.95
2118619	Newhaven	NHD-021682-FL-YBW-R	16 x 2	5 x 8	4-bit or 8-bit	5.0V @ 1.5mA	Blue-Yellow/Green	5, 6	3.3 x 1.7 x 0.5	2.5 x 0.6	9.95	8.95	7.95
1585979	Tinsharp	TC1602B-B	16 x 2	5 x 8	8-bit	5.0V @ 1.3mA	Black-Blue	—	3.1 x 1.4 x 0.4	2.5 x 0.4	14.95	13.49	11.95
2118580	Newhaven	NHD-0216K1Z-FL-YBW-R	16 x 2	5 x 8	4-bit or 8-bit	5.0V @ 1.5mA	Blue-Yellow/Green	5, 6	3.2 x 1.4 x 0.5	2.5 x 0.6	9.95	8.95	7.95
2118601	Newhaven	NHD-0216K1Z-FS(RGB)-FBW-R	16 x 2	5 x 8	4-bit or 8-bit	5.0V @ 1.5mA	Black-RGB	5, 6	3.2 x 1.4 x 0.5	2.5 x 0.6	12.95	11.95	10.95
2118598	Newhaven	NHD-0216K1Z-NSW-BBW-L-R	16 x 2	5 x 8	4-bit or 8-bit	5.0V @ 1.5mA	White - Blue	5, 6	3.2 x 1.4 x 0.5	2.5 x 0.6	10.95	9.95	8.95
1954674	Tinsharp	TC1602B-W	16 x 2	5 x 8	8-bit	5.0V @ 1.3mA	White-Black	—	3.1 x 1.4 x 0.4	2.5 x 0.4	14.95	13.49	11.95
2118627	Newhaven	NHD-0216SZ-NSW-BBW-R	16 x 2	5 x 8	4-bit or 8-bit	5.0V @ 1.5mA	White-Blue	5, 6	4.8 x 1.7 x 0.5	3.9 x 0.9	19.95	17.95	15.95
365982	PicVue	PVC160206QYL04	16 x 2	5 x 8	8-bit	5.0V @ 1.6mA	Black-Yellow/Green	—	3.3 x 1.2 x 0.5	2.4 x 0.6	13.95	12.49	10.95
2081166	Optrex	DMC16249	16 x 2	5 x 8	4-bit or 8-bit	5.0V @ 3.0mA	Black-Grey -None	—	3.1 x 1.4 x 0.4	2.5 x 0.5	9.95	8.95	7.95
210761	Various	UC-16401 (Samsung)	16 x 4	5 x 8	4-bit or 8-bit	6.5V @ 2.2mA	Black-None	1, 3	3.4 x 2.4 x 0.3	2.4 x 1.0	24.95	22.49	19.95
2115469	Hantronic	HDM20216H-3-VH0P	20 x 2	5 x 7	8-bit	5.0V @ 1.5mA	Yellow-White-None	—	4.6 x 1.5 x 0.4	3.3 x 0.7	9.95	8.95	7.95
171724	ValuePro	AC-202A-R	20 x 2	5 x 8	8-bit	5.0V @ 1.7mA	Black-Yellow/Green	2, 3	4.6 x 1.5 x 0.4	3.3 x 0.7	24.95	22.49	20.25
2118635	Newhaven	NHD-0220DZ-FL-YBW-R	20 x 2	5 x 8	4-bit or 8-bit	5.0V @ 1.5mA	Blue-Yellow/Green	5, 6	4.6 x 1.5 x 0.4	3.3 x 0.7	17.95	16.95	15.95
2118643	Newhaven	NHD-0420DZ-FL-YBW-R	20 x 4	5 x 8	4-bit or 8-bit	5.0V @ 3.5mA	Blue-Yellow/Green	5, 7	3.9 x 2.4 x 0.6	3.0 x 1.0	21.95	20.49	18.95
658831	Hantronic	HDM402162H-4-S90P	40 x 2	5 x 7	8-bit	5.0V @ 2.2mA	Black-None	3	7.2 x 1.3 x 0.4	6.1 x 0.6	7.95	6.95	6.25
658929	Hantronic	HDM40216H-4-S9RP	40 x 2	5 x 7	8-bit	5.0V @ 2.2mA	Black-None	3	7.2 x 1.3 x 0.4	6.1 x 0.6	9.95	8.95	7.95
658937	Hantronic	HDM40216L-4-LCWF	40 x 2	5 x 7	8-bit	5.0V @ 3.0mA	Black-Yellow/Green	3	7.2 x 1.3 x 0.6	6.1 x 0.6	19.95	17.95	15.95
652332	Seiko Inst.	DMC4024	40 x 4	5 x 8	8-bit	5.0V @ 12mA	Black-None	—	7.5 x 2.1 x 0.4	5.5 x 0.9	22.95	19.95	16.95
658953	Hantronic	HDM64GS12L-4-N31S	128 x 64	128 x 64	8-bit	5.0V @ 2.0mA	Black-None	4	3.0 x 2.1 x 0.4	2.4 x 1.3	19.95	17.95	15.95
2118694	Newhaven	NHD-12864AZ-FSW-GBW-VZ-R	128 x 64	128 x 64	8-bit	5.0V @ 3.5mA	Blue - White	5, 8	3.7 x 2.8 x 0.5	2.8 x 1.6	25.95	24.95	23.95
2118707	Newhaven	NHD-24064CZ-FSW-GBW-VZ-R	240 x 64	240 x 64	8-bit	5.0V @ 7.0mA	Blue -White	5, 9	4.6 x 1.8 x 0.5	3.8 x 1.2	44.95	42.95	39.95

†1. Control LSI HD44780 & column driver MSM5259 or equivalents

2. Controller KS0066U or equivalent

3. Recommended power supply P/N 164101, pg 113

4. Dot Graphic LCD display

5. Recommended power supply P/N 252701, pg 111

6. Controller SPLC780D or equivalent

7. Controller SPLC780D-01 or equivalent

8. Controller KSO108B

9. Controller RA6963

**The Best Warranty in the Industry**

**All Jameco purchases are guaranteed  
for a full 90 days and even longer  
for Jameco house brands.**



★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Serial LCD Displays & LED Replacement Lamps

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

## Serial LCD Displays

• For detailed specification sheets, please visit [www.Jameco.com](http://www.Jameco.com). • One-year warranty

★ Web Code: QAW



Part No.	Manufacturer	Mfr. Part No.	Characters x Lines	Input Data	Input Voltage (V @ mA)	Letters - Backlight	Notes†	Module Size (W" x H" x D")	Display Size (W" x H")	Pricing		
										1	5	25
150990	Scott Edwards	ILM-216L	16 x 2	1200-9600	4.8-5.5 @ 5	Black-Yellow/Green	1,2,5	3.2 x 2.0 x 0.5	2.8 x 1.0	\$49.95	\$44.95	\$41.95
2118651	Newhaven	NHD-0216K3Z-FL-GBW	16 x 2	9600 (default)	5.0 @ 125	Blue-Yellow/Green	—	3.2 x 1.4 x 0.5	2.5 x 0.6	18.95	16.95	14.95
2118660	Newhaven	NHD-0126K3Z-FS(RGB)-FBW	16 x 2	9600 (default)	5.0 @ 18	Black-RGB	—	3.2 x 1.4 x 0.5	2.5 x 0.6	23.95	21.49	18.95
2081975	Crystal Fon	CFA632-NFA-KS	16 x 2	2400-19,200	5.0 @ 9	Black-None	5	4.3 x 1.7 x 0.6	3.3 x 0.9	19.95	17.95	15.95
133129	Scott Edwards	BPI-216N	16 x 2	2400 or 9600	4.8-5.5 @ 3	Black-None	1,2,11	3.1 x 1.4 x 0.7	2.8 x 1.0	55.95	49.95	44.95
174166	Matrix Orbital	LK162-12R	16 x 2	1200-19,200	5.0 @ 9	Black-Yellow/Green	1,3,4,6	3.2 x 1.5 x 0.8	2.5 x 0.7	59.95	56.95	53.95
387911	Parallax	27977	16 x 2	2400-19,200	5.0 @ 20	Black-Yellow/Green	2,3	3.2 x 1.4 x 1.0	2.8 x 1.0	33.95	31.95	29.95
2118678	Newhaven	NHD-0220D3Z-FL-GBW	20 x 2	9600 (default)	5.0 @ 245	Blue-Yellow/Green	—	4.6 x 1.5 x 0.5	3.3 x 1.1	21.95	19.95	17.95
158166	Scott Edwards	SGX-120L	20 x 4 w/ graphics	2400 or 9600	4.8-5.5 @ 15	Yellow-None	1,2,5	3.1 x 1.9 x 0.8	2.6 x 1.1	119.95	109.95	99.95
150957	Matrix Orbital	LCD2041	20 x 4	1200-19,200	5.0 @ 10	Black-Yellow/Green	1,3,4,6	3.9 x 2.4 x 0.7	3.0 x 1.0	69.95	66.49	62.95
2118686	Newhaven	NHD-0420D3Z-FL-GBW	20 x 4	9600 (default)	5.0 @ 245	Blue-Yellow/Green	1	3.9 x 2.4 x 0.5	3.0 x 1.0	23.95	21.49	18.95
157323	Matrix Orbital	LK204-25R	20 x 4 w/ keypad	1200-19,200	5.0 @ 16	Black-Yellow/Green	1,3,4,6	3.7 x 2.4 x 1.1	3.0 x 1.0	74.95	70.95	67.95
694170	Matrix Orbital	LK204-25-IVR	20 x 4 w/ keypad	1200-19,200	5.0 @ 16	Yellow-Blk	1,7,10,12	3.9 x 2.4 x 1.2	3.0 x 1.0	59.95	56.95	53.95
281391	Matrix Orbital	GLK12232-25-SM	122 x 32 w/ graphics	9600-115,000	5.0 @ 250	Blue-White	1,8	3.4 x 1.4 x 0.5	2.4 x 0.7	69.95	66.95	59.95
281404	Matrix Orbital	GLK12232-25-FGW	122 x 32 w/ graphics	9600-115,000	5.0 @ 20	Black-White	1,8	3.9 x 2.4 x 0.4	3.3 x 1.4	78.95	77.95	76.95
174182	Matrix Orbital	GLC24064	240 x 64 w/ graphics	1200-19,200	5.0 @ 31	Black-Yellow/Green	1,3,6	7.1 x 2.6 x 0.7	5.2 x 1.5	129.95	122.95	116.95
694381	Matrix Orbital	GLK24064-25-WBR	240 x 64 w/ graphics	9600-115,000	5.0 @ 35	White-Blue	1,9,13	7.1 x 2.6 x 0.7	5.0 x 1.3	139.95	132.95	125.95

- † 1. For a power supply, Jameco recommends P/N 164101, pg 113  
 2. Includes instruction codes for character generation, cursor control, printing, etc. (Examples for Stamps in PBASIC included)  
 3. Manual included  
 4. Connect 16 modules using the same two wire interface  
 5. EEPROM stores text font, settings, and text screen

6. Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping & auto scroll feature  
 7. Connect up to 127 modules on the same 2-wire interface  
 8. 122 x 32 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting & keypad interface  
 9. 240 x 64 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting & keypad interface

10. Built-in font provision for up to 8-user defined characters, software controlled brightness, use up to a 25-key keypad with one 10-key buffer, 6 general purpose outputs, horizontal or vertical bar graphs  
 11. LCD Serial Backpack® accepts RS232, CMOS or TTL signal  
 12. Inverse yellow  
 13. White text/blue background

## Multi-Chip, Bayonet and Cluster-Based

### LED Replacement Lamps

★ Web Code: KBZ

#### 585 Series Non-Polarized

- Low current draw – 90% less energy than incandescent • No heat generated
- Long life – up to 100k hours
- Mounts directly into industry standard socket

Multi-Chip Based

Bayonet Based



#### Multi-Chip Based LED T1 - Midget Flange

Part No.	Product No.	Color	Nominal Voltage	Forward Current (mA) typ.	Intensity (mcd) typ.	Wavelength (nm)	Pricing		
							1	10	100
392690	585-4125	Yellow	14	20	530	630	\$2.49	\$2.19	\$1.79
392702	585-1225	Red	28	4.5	350	625	2.49	2.19	1.79

#### Bayonet Based LED T3

394476	585-4123	Red	14	20	550	630	\$2.95	\$2.59	\$1.95
394493	585-4125	Red	28	14	350	630	2.95	2.59	1.95

#### Cluster-Based LED T3 - Miniature Bayonet (BA9s)

- Replaces incandescent lamp numbers: 44, 47, 313, 755, 1815, 1819, 1847, 1850, 1866, 1889, 1891, 1892, 1893, and 1895



392552	585-5223	Red	14	20	7000	630	\$4.95	\$4.49	\$3.95
392585	585-5523	Yellow	14	20	7000	588	4.95	4.49	3.95
392593	585-5225	Red	28	15	6500	630	4.95	4.49	3.95
392607	585-5325	Green	28	15	6000	525	4.95	4.49	3.95
392622	585-5525	Yellow	28	15	6000	588	4.95	4.49	3.95
392632	585-5256	Red	120VAC	5.5	6500	625	4.95	4.49	3.95
392649	585-5356	Green	120VAC	5.5	7000	525	4.95	4.49	3.95

## JKL

## Wedge Base LEDs & Holders

Wedge LEDs can replace filament bulbs commonly found in automotive and water craft applications. The LEDs feature an integrated diode for reserve voltage protection and a current limiting resistor.



### Lamps

Part No.	Product No.	Volt. @ Current	Color	Wavelength	Lumens	1	10	100
2123338	LE-0509-01W	24VDC @ 15mA	White	X=0.3; Y=0.29	2	\$1.49	\$1.35	\$1.19
2123346	LE-0509-01B	24VDC @ 15mA	Blue	X=0.3; Y=0.29	1	1.49	1.35	1.19
2123371	LE-0503-03W	12VDC @ 15mA	White	X=0.3; Y=0.29	2.5	1.25	1.09	.99
2123389	LE-0503-03B	12VDC @ 15mA	Blue	470	0.7	1.25	1.09	.99
2123397	LE-0509-02R	24VDC @ 20mA	Red	630	0.7	.95	.79	.69
2123400	LE-0509-02Y	24VDC @ 20mA	Yellow	595	0.7	.95	.79	.69

### Sockets

• T1 3/4: 95° FOV • T3 1/4: 20° FOV

Part No.	Product No.	Description	1	10	100
2123434	2948-6G	T1 3/4, push-in type with 6" green leads	\$ .95	\$ .85	\$ .75
2123442	2964-8B	T3 1/4, push-in type with 8" leads	1.25	1.09	.95



## Electroluminescence Wire

★ Web Code: BDZ

Imagine the possibilities of transforming ordinary objects with high tech visual effects. Wrap this fluorescent wire around any object such as musical instruments, models, science projects & presentation boards. Super charge your projects w/ brilliant color.

- Powered by 2 AA batteries



Part No.	Mfr. Part No.	Color	Length	1	5	25
263484	NWRB15	Blue	4.5' .....	\$22.95	\$19.95	\$17.95

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

## Neon Panel Mount Lamps

- Input voltage: 120V
- Mounting hole dia.: 5/8" (16mm)
- Solder terminals: 0.196" (5mm)

1585485:

- Rectangular
- 6" wire leads
- Size: .91"L x .38"W x .77"D

215803

1585485

Part No.	Cross Ref. No.	Color	1	10	100
215803	R9-71N-05-120V-R	Red	\$1.95	\$1.75	\$1.59
215812	R9-71N-05-120V-Y	Yellow	1.49	1.35	1.19
215830	R9-71N-05-120V-G	Green	1.49	1.35	1.19
1585485	32501001714	Green	.....*	.19	.15

## Incandescent/Neon Panel Mount Lamps

- Mounting hole: .310"Dia.
- Color: red

2099788: Incandescent type

• 2.7VDC @ 60mA

2126184/1765849: Neon type

- 105VAC to 125VAC

2126184

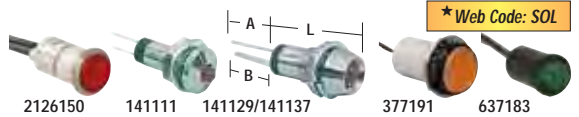
1765849

Part No.	Mfr. Part No.	Lead Wire	1	10	100
2099788	970D00146	10"	\$1.49	\$1.25	\$1.09
2126184	1850-1-1-0-201-1	5/6"	1.95	1.75	1.49
1765849	2150A1	4.4/4.8"	2.49	2.25	1.95

## LED Panel Mount Indicators

- Easy panel installation
- Panel/status/instrument indicators

141111/141129/141137: Chrome housing



\* Web Code: SOL

Part No.	Cross Ref. No.	Mfr.	LED Size	Color	Dimensions (in.)	Mounting	Vf @ If	Pricing
					L A B	Hole		1 10 100
2126150	2850-1-1-2-393-1	SOL	T1	Red	.95 5.5 5.5	.52"	125VAC	\$1.49 \$1.25 \$1.09
2126176	2850-1-1-2-393-4	SOL	T1	Green	.95 5.5 5.5	.52"	125VAC	1.49 1.25 1.09
2126168	2850-1-1-2-393-2	SOL	T1	Orange	.95 6.0 6.0	.52"	125VAC	1.49 1.25 1.09
141111	L922SRD	JVP	T1	Red	.56 .34 .25	.23"	2V @ 20mA	.85 .75 .69
141129	L913RD	JVP	T1	Red	.56 .39 .32	.24"	2V @ 20mA	1.39 1.25 1.15
141137	L917RD	JVP	T1 3/4	Red	.70 .55 .47	.31"	2V @ 20mA	1.19 1.05 .95
377191	577-1702-203*	DIA	0.7"D	Yellow	1.40 5.0 5.0	.69"	5V @ 80mA	8.95 7.95 6.95
637183	UT2U1G-H113-R801-W05†	LED	T1 3/4	Green	.55 5.5 5.5	.24"	12V @ 10mA	1.19 1.05 .95

\* Watertight, plastic housing w/ connector † Has internal resistor to run 12V @ 10mA

See Inside Front Cover for NEW Indicators

## 12V Incandescent Panel Mount Lamps

- 215715/215723/215732: Solder terminals - 0.196" (5mm)

Part No.	Cross Ref. No.	Fig.	Color	Mounting Hole	Wire Length	1	10	100
215750	R9-55B-W130-12V-R	1	Red	9/32" (7mm)	4.9" (125mm)	\$1.49	\$1.35	\$1.19
215758	R9-55B-W130-12V-Y	1	Yellow	9/32" (7mm)	4.9" (125mm)	1.49	1.35	1.19
215766	R9-55B-W130-12V-G	1	Green	9/32" (7mm)	4.9" (125mm)	1.65	1.55	1.39
215774	R9-46B-W100-12V-R	2	Red	1/2" (13mm)	3.9" (100mm)	1.49	1.35	1.19
215782	R9-46B-W100-12V-Y	2	Yellow	1/2" (13mm)	3.9" (100mm)	.75	.65	.55
215791	R9-46B-W100-12V-G	2	Green	1/2" (13mm)	3.9" (100mm)	1.49	1.35	1.19
215715	R9-71B-05-12V-R	3	Red	5/8" (16mm)	Terminals	1.85	1.69	1.49
215723	R9-71B-05-12V-Y	3	Yellow	5/8" (16mm)	Terminals	.75	.65	.55
215732	R9-71B-05-12V-G	3	Green	5/8" (16mm)	Terminals	1.49	1.35	1.19

\* Web Code: JBJ



Fig. 1



Fig. 2



Fig. 3

## Ultraviolet Lamp & Ballast (Rapid Start)

Part No.	Mfr.	Mfr. Part No.	Description	1	10	50
2100128	Philips	TUV25W/G25	20" T5 ultraviolet lamp	\$6.95	\$5.95	\$4.95
2100005	Lightwave	LW20EB20-120	25W rapid start ballast	.99	.85	.69

## 2' to 5' LED T8 Fluorescent Lamps

- 5mm LEDs
- 120° beam angle
- Temp.: -20° to +45°C

Part No.	Length	Watt	VAC	Color	Luminous	LEDs	1	6
2126379	2'	8	270	Warm white	600	174	\$39.95	\$34.95
2126361	3'	12	85/265	Warm white	800	180	49.95	44.95
2126352	4'	18	110	Pure white	1600	342	59.95	49.95
2126344	4'	18	110	Warm white	1600	342	59.95	49.95
2126336	5'	20	110	Warm white	1800	420	69.95	59.95

## 4" to 12" Fluorescent Lamps & Power Supplies

Now you can easily and affordably mount these fluorescent lamps to add cool cold-cathode effects and give your display a richer look and feel.

\* Web Code: ABP

Part No.	* Mfr.	Mfr. Part No.	Description	Size (L" x Dia.)	1	10	25
2077474	JKL	FLC10-12	Cool white lamp†	10 x .120	\$.99	\$.85	\$.69
2077458	JKL	FLC10-16	Cool white lamp†	10 x .160	.99	.85	.69
2077466	JKL	FLC12-12	Cool white lamp†	12 x .120	.99	.85	.69
239636	VLM	FLPS1	12VDC power supply		4.95	4.49	3.95
2077440	VLM	FLPS	12VDC power supply for P/N 2077474, 2077458, 2077466		4.95	4.49	3.95

† † solder terminals



\* Web Code: DBH

## Incandescent Lamps

\* Order in multiples of 10

Part No.	Cross Ref.	* Mfr.	Fig.	Description	Volts	MSCP	1	10	100
209390	14	JVP	1	G3 1/2 miniature screw	2.47	.50	\$4.45	\$3.95	\$3.35
209402	40	JVP	2	T3 1/4 miniature screw	6.3	.50	.35	.29	.25
209411	44	JVP	3	T3 1/4 miniature bayonet	6.3	.90	.29	.25	.19
209429	46	JVP	2	T3 1/4 miniature screw	6.3	.90	.49	.45	.39
209437	47	JVP	4	T3 1/4 miniature bayonet	6.3	.50	.25	.22	.19
210403	51	JVP	5	G3 1/2 miniature bayonet	7.5	1.0	*	.07	.06
209453	53	JVP	5	G3 1/2 miniature bayonet	14.4	1.0	*	.19	.15
209461	73	JVP	6	T1 3/4 wedge	14	.30	.29	.25	.19
209509	161	JVP	3	T3 1/4 wedge	14	1.0	*	.15	.12
209525	194	JVP	3	T3 1/4 wedge	14	2.0	*	.08	.07
209832	1815	JVP	4	T3 1/4 miniature bayonet	14	1.4	*	.08	.07
209859	1818	JVP	4	T3 1/4 miniature bayonet	24	3.3	.35	.29	.25
141073	2182	JVP	7	T1 3/4 wire terminal	14	.34	.49	.45	.39
141066	2200	JVP	7	T1 3/4 wire terminal	5	.05	.49	.45	.39
141057	6833	JVP	8	T 3/4 wire terminal	5	.05	.69	.59	.55
1943916	CM8-A241	JVP	9	T1 wire terminal w/ blue cap	12	.15	.29	.25	.19

## Incandescent Lamps (Cont.)

\* Order in multiples of 10

Part No.	Cross Ref.	* Mfr.	Fig.	Description	Volts	MSCP	1	10	100
210008	7328	JVP	10	T1 3/4 bi-pin	6	.60	\$.69	\$.59	\$.55
141006	7361	JVP	10	T1 3/4 bi-pin	5	.05	.45	.39	.35
210032	7382	JVP	10	T1 3/4 bi-pin	14	.30	.65	.59	.55
210083	7839	JVP	11	T1 bi-pin	28	.15	.35	.29	.25
210092	120MB	JVP	12	T2 miniature bayonet	120	1200	.75	.69	.55
309673	6S6	JVP	13	S6 candelabra	120	—	*	.08	.07
309681	20T6	JVP	14	T6 1/2W intermediate	120	—	*	.19	.15
210340	PR2	JVP	15	B3 1/2 sngl cont. mini flange	2.38	.80	*	.09	.07
210374	PR6	JVP	15	B3 1/2 sngl cont. mini flange	2.47	.45	*	.09	.07

## Neon Lamps

\* Order in multiples of 10

\* Web Code: VAD

Part No.	Cross Ref.	* Mfr.	Fig.	Description	Voltage	1	10	100
27351	A1A (NE-2)	JVP	16	Wire terminal .6mA	65-120	\$.35	\$.29	\$.25
210260	A9A (NE-2E)	JVP	16	Wire terminal .7mA	65-120	*	.19	.15
210315	C2A (NE-2H)	JVP	16	Wire terminal	65-120	.35	.29	.25

\* DIA = Dialight | JKL = JKL Components | JVP = Jameco ValuePro | LED = Ledtech | SOL = Solico | VLM = Velleman Inc.

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



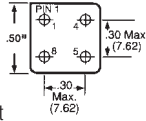
# Oscillators, Crystals & Fuse Holders

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

- Frequency stability  $\pm 100\text{ppm}$
- Operating temp.:  $0^{\circ}\text{C}$  to  $70^{\circ}\text{C}$
- Output load TTL: 10 TTL max.
- Machine tooled 4 pins

## Half Can

- Input voltage:  $+3.3\text{VDC} \pm 10\%$
- Most fit into a 8-pos. DIP socket P/N 676385, below right

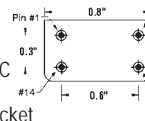


Pin #	Function
1	N/C
4	GND
5	Output
8	+3.3VVs

★ Web Code: MAM

## Full Can

- Input volt.:  $+5\text{VDC} \pm 0.5\text{VDC}$
- Most fit into a 14-pos. DIP socket P/N 133006, below right



Pin #	Function
1	N/C
7	GND
8	Output
14	+5VVs

★ Web Code: XAD

## Full Can (Continued)

Part No.	*Mfr.	Frequency (MHz)	Max. Input Current	Rise Fall Time	Pricing		
					1	10	100
27895	♦	12.0	15mA	10ns	\$1.95	\$1.79	\$1.59
27908	♦	16.0	15mA	10ns	.75	.65	.55
325382	JVP	18.432	30mA	10ns	.95	.85	.75
27932	♦	20.0	17mA	10ns	1.25	1.09	.99
354918	JVP	20.0	30mA	10ns	.95	.85	.75
27941	♦	32.0	18mA	7ns	.75	.65	.55
76822	♦	33.0	18mA	6ns	1.95	1.79	1.59
153226	♦	40.0	15mA	6ns	.99	.89	.79
76831	♦	50.0	25mA	6ns	.75	.65	.55
2095381	♦	60.0	65mA	5ns	.95	.85	.75
325420	JVP	66.666	70mA	5ns	.95	.85	.75
76857	♦	100.0	25mA	3ns	1.95	1.79	1.49

## FOX SMD Oscillator

5.0V HCMOS/TTL output

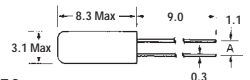
- Frequency stability:  $\pm 100\text{ppm}$
- Dimensions: 7.5mmW x 1.5mmH x 5.2mmD



Part No.	Mfr.	Part No.	Freq. (MHz)	Imped.	Pricing		
					1	10	100
1592263	F3345-200	♦	20	25mA	\$1.59	\$1.39	\$1.19

## Tuning Forks

- Operating temperature range:  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
- Frequency: 32.768kHz
- Drive level: 1mW
- Frequency tolerance:  $\pm 50\text{ppm}$
- Aging for first year:  $\pm 3\text{ppm}$  (max.  $+25^{\circ}\text{C}$ )



Part No.	Comparable to:	Imped.	1	10	100
14584	CY32.76	10.5pF	.35	.29	.25
325244	JVP-325243	12.5pF	.35	.29	.25

## Crystal Oscillator Sockets

- Good for prototyping and PCB mounting
- Can be PCB mounted without the modifications that would be needed with DIP-IC sockets
- Low profile solder tail; machine tooled on 4 pins



Part No.	Description	1	10	100
676385	8-pos. socket for half can	.55	.45	.35
133006	14-pos. socket for full can	.55	.45	.35

## Littelfuse Fuse Holders

★ Web Code: UEA

### Omni-Blok® Molded Base Fuse Block

- Dielectric strength: 1500V min.
- Clip/terminals: tin plated spring brass
- Solder terminal \*1 3AG 5x20mm



Part No.	Mfr.	Part No.	Curr. Rating	Size*	1	10	100
1711947	354001-GY	♦	15A, 300V	1 ...	.95	.85	.79
1712608	520101	♦	10A, 300V	2 .....	.69	.65	.59

### Panel Mount for 3AG Fuse

- Dielectric strength: 2400V min.
- Black thermoplastic, UL94V-0
- Terminals: copper & copper alloy, tin plated



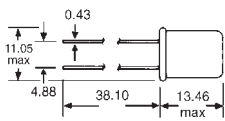
Part No.	Mfr.	Part No.	Curr. Rating	1	10	100
1711681	342012	♦	20A ...	\$1.99	\$1.69	\$1.59

★ R/C Crystal Oscillators — Enter Web Code RCO

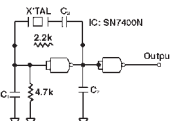
Part No.	*Mfr.	Frequency (MHz)	Max. Input Current	Rise Fall Time	Pricing		
					1	10	100
325462	♦	1.0	15mA	10ns	\$1.19	\$1.09	.95
325471	♦	1.2288	15mA	10ns	.75	.65	.55
325497	♦	2.0	25mA	5ns	.75	.65	.55
325518	JVP	3.6864	15mA	10ns	.95	.85	.75
325526	JVP	4.0	15mA	10ns	1.35	1.19	1.09
354829	JVP	10.0	25mA	5ns	.95	.85	.75
102779	♦	10.0	45mA	6ns	1.19	1.09	.95
325631	JVP	16.257	30mA	10ns	.95	.85	.75
325649	JVP	18.432	30mA	10ns	.95	.85	.75
325665	JVP	20.0	30mA	10ns	1.35	1.19	1.09
325737	JVP	48.0	70mA	5ns	.95	.85	.75

## Crystals

- Frequency calibration tolerance:  $\pm 50\text{ppm}$  @  $25^{\circ}\text{C}$
- Freq. stability tolerance:  $\pm 50\text{ppm}$  from  $-10^{\circ}$  to  $+60^{\circ}\text{C}$
- Operating temperature:  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
- Shunt capacitance: 7pF max.
- Drive level: 4.0mW max.



HC49/U (HC18/U) Case  
Dimensions in millimeters



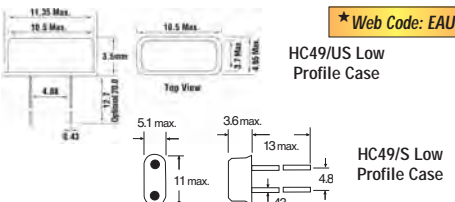
- C1: 150-470 pF
- C2: 220-820 pF
- C3: Match crystal impedance

Application Reference (4-14MHz) (parallel resonance)

## HC49/U (HC18/U) Case

\* Order in multiples of 10

Part No.	*Mfr.	Frequency (MHz)	Impedance	Pricing		
				1	10	100
102613	♦	1.8432	18pF	.59	.55	.49
102621	♦	2.0	Series	.55	.49	.45
101274	♦	2.4576	32pF	.59	.55	.49
14533	♦	3.579545	18pF	.49	.39	.35
324364	JVP	4.0	Series	.59	.55	.49
14592	♦	4.0	20pF	.59	.55	.49
324371	JVP	4.194	12pF	*	.19	.15
324451	JVP	6.0	32pF	*	.19	.15
324460	JVP	6.0	Series	*	.19	.15
14728	♦	8.0	Series	.59	.55	.49
14381	♦	10.0	Series	.59	.55	.49
120061	♦	11.0592	Series	.59	.55	.49
324128	JVP	11.0592	Series	.25	.22	.19
324110	JVP	11.0592	32pF	.39	.35	.29
14402	♦	12.0	Series	.59	.55	.49
537799	♦	14.31818	Series	*	.09	.08
14453	JVP	16.0	Series	.49	.39	.35
324233	JVP	18.432	20pF	.29	.25	.22
324241	JVP	19.6608	20pF	*	.09	.08
324268	JVP	20.0	20pF	.59	.55	.49
14517	♦	20.0	Series	.59	.55	.49
324398	JVP	49.86	20pF	*	.19	.15



★ Web Code: EAU

## JAMECO ValuePro HC49/US Low Profile Case

Part No.	*Mfr.	Frequency (MHz)	Impedance	Pricing		
				1	10	100
324988	JVP	3.6864	18pF	\$.29	\$.25	\$.22
324962	JVP	4.0	20pF	.59	.55	.49
324929	JVP	5.0	20pF	.59	.55	.49
324902	JVP	5.0688	20pF	.29	.25	.22
324865	JVP	6.0	Series	.29	.25	.22
324857	JVP	6.144	32pF	.29	.25	.22
324849	JVP	6.500	20pF	.29	.25	.22
324822	JVP	7.3728	20pF	.29	.25	.22
324831	JVP	7.3728	20pF	.29	.25	.22
324814	JVP	7.68	20pF	.29	.25	.22
324769	JVP	9.0	Series	.29	.25	.22
324742	JVP	9.216	Series	.29	.25	.22
325227	JVP	11.0592	20pF	.29	.25	.22
325198	JVP	12.0	20pF	.29	.25	.22
325139	JVP	16.0	20pF	.59	.55	.49
325104	JVP	18.432	20pF	.29	.25	.22
325113	JVP	18.432	20pF	.59	.55	.49
325075	JVP	19.6608	7pF	.29	.25	.22
325964	JVP	19.6608	20pF	.29	.25	.22
325068	JVP	20.0	20pF	.59	.55	.49
325041	JVP	20.48	20pF	.29	.25	.22
325024	JVP	24.0	20pF	.59	.55	.49

† Industrial temperature range is  $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$

## HC49/S Low Profile Case

- Operating temp.:  $-10^{\circ}$  to  $+60^{\circ}\text{C}$   $\pm 5\text{ppm/year}$  max.
- Drive level: 0.5mW (fundamental frequency)
- Frequency stability tolerance:  $\pm 50\text{ppm}$

Part No.	Comparable:	Freq. (MHz)	Imped.	Pricing		
				1	10	100
137816	CY3.5795	3.5759	17pF	\$.39	\$.29	\$.25
137832	CY4LP	4.0	17pF	.49	.35	.29
137859	CY8LP	8.0	Series	.39	.29	.25
137875	CY11.05LP	11.0592	Series	.49	.35	.29
137891	CY16LP	16.0	Series	.49	.35	.29

\* JVP = Jameco ValuePro ♦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

JAMECO ValuePro

## 5mm x 20mm Mini Fast Acting GMA Fuses (250V)

★ Web Code: QAM

• Recommended for new designs

Part No.	*Mfr.	Cross Ref.	Amps	1	10	100
103887	JVP	GMA-250mA	.25A	\$.29	\$.25	\$.22
102041	JVP	GMA-500mA	.5A	.29	.25	.22
103908	JVP	GMA-1A	1A	.29	.25	.22
103916	JVP	GMA-2A	2A	.29	.25	.22
103924	JVP	GMA-3A	3A	.29	.25	.22
103932	JVP	GMA-5A	5A	.29	.25	.22

## 1 1/4" x 1/4" Standard Fast Acting (250V) AGC/3AG Fuses

★ Web Code: AAB

Part No.	*Mfr.	Cross Ref.	Amps	1	10	100
69404	JVP	AGC-250mA	.25A	\$.29	\$.25	\$.22
10410	JVP	AGC-0.5	.5A	.29	.25	.22
10373	JVP	AGC-1A	1A	.29	.25	.22
652949	LTL	312001.HXP	1A	.29	.25	.22
197528	JVP	AGC-1.6	1.6A	.29	.25	.22
10382	JVP	AGC-2A	2A	.29	.25	.22
197536	JVP	AGC-2.5	2.5A	.29	.25	.22
69439	JVP	AGC-3R	3A	.29	.25	.22
197544	JVP	AGC-4	4A	.29	.25	.22
10402	JVP	AGC-5A	5A	.29	.25	.22
197552	JVP	AGC-6.3	6.3A	.29	.25	.22
69462	JVP	AGC-10A	10A	.29	.25	.22
186301	JVP	AGC-16	16A	.29	.25	.22

## Fuse Holders & Clips

### Low Profile Fuse Clips

1. For GMA/GMD fuses 2. For 3AG/MDL/AG fuses

• Low contact resistance • Withstands shock/vibration

Part No.	Description	For Use With†	Size (H" x W" x D" x P")	10	100	500
119280	5mm, side leads	1	.33 x .25 x .20 x .21	\$.15	\$.13	\$.09
102860	5mm, front leads	1	.37 x .25 x .21 x .19	.15	.13	.09
2099438	1/4", side leads	2	.42 x .25 x .20 x .21	.15	.13	.09
102842	1/4", front leads (10A)	2	.32 x .27 x .25 x .23	.15	.13	.09

### 5mm x 20mm Miniature Thumbscrew Cap Holders

• Straight solder terminal • Size: 1.5" L x 0.6" Dia.

Part No.	Approvals	Current	Mounting Hole	1	10	100	500
150464	CE/	6A @ 250VAC	.50" Dia. x .43" Flat	\$.109	\$.99	\$.89	\$.79
102825	UL/CSA/	10A @ 250VAC	.50" Dia.	1.25	1.09	.95	.89

### 1/4" x 1/4" Standard Thumbscrew Cap Holders

• Straight solder terminal • Current: 10A @ 250VAC

Part No.	Approvals	Size (L" x Dia.)	Mounting Hole	1	10	100	500
120994	CE/	1.95" x .71"	.58" Dia. (Double D-style)	\$.95	\$.85	\$.69	\$.65
18703	UL/CSA/	2.05" x .71"	.58" Dia. x .52" Flat (D-style)	1.59	1.35	1.19	.95

### 1/4" x 1/4" PCB Fuse Holder

• Current: 16A @ 250V • Mfr.: Bussman

1769743	UL/CSA/VDE	1.86 x .51	.4 x .4 grid	\$4.95	\$4.69	\$4.39	\$3.95
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### 5mm x 20mm Miniature Low Profile Fuse Holder

• Current: 10A @ 250VAC • D-style

Part No.	Approvals	Size (L" x Dia.)	Mounting Hole	1	10	100
102832	UL/CSA	1.4 x 0.6	.5" Dia. x .46" Flat	\$2.49	\$2.19	\$1.99

### 5mm x 20mm Miniature In-Line Fuse Holder

Part No.	AWG	Wire Color	Body Size	1	10	100
109330	20	Red	1.8" L	\$.69	\$.65	\$.59

### 1/4" x 1/4" Standard In-Line Fuse Holders

• Built-in spring ensures good fuse connection  
• Vinyl covered wire with stranded copper center

Part No.	AWG	Wire Lengths	Body Length	Color (Body/Wire)	1	10	100
109322	22	3.5/3"	2.4"	Black/Red	\$.79	\$.75	\$.69
102868	20	3/3"	2.2"	White/Red	.89	.79	.69
151918	18	6/6"	2.4"	White/Red	1.19	1.09	.95
108784	16	21/26"	2.2"	Black/Orange	1.79	1.55	1.29
108792	14	19/25"	2.5"	Black/Red	2.49	2.25	1.95

\* BSM = Bussman | JVP = Jameco ValuePro | LTL = Littelfuse | † Manufacturer Varies

## Fuses

### 5mm x 20mm Mini Slow Blow GMD Fuses (250V)

★ Web Code: RAM

Part No.	*Mfr.	Cross Ref.	Amps	1	10	100
2125659	BSM	GMD-200	0.2A	\$.39	\$.35	\$.29
197502	JVP	GMD-500mA	0.5A	.39	.35	.29
103827	BSM	GMC-1A	1A	.39	.35	.29
197465	JVP	GMD-1A	1A	.39	.35	.29
197472	JVP	GMD-2	2A	.39	.35	.29
197482	JVP	GMD-3.15	3.15A	.39	.35	.29
197500	JVP	GMD-5A	5A	.39	.35	.29

\* Medium time delay type

### 1 1/4" x 1/4" Ceramic Fast Acting 3AB Fuses (250V)

★ Web Code: ABF

Part No.	*Mfr.	Cross Ref.	Amps	1	10	100
656851	LTL	314.750HXP	.75	\$.69	\$.65	\$.59
656966	LTL	314012.HXP	12	.59	.55	.49

### 5mm x 20mm Fast Acting Fuse Kit

- Glass cartridge, silver-end caps
- Voltage rating: 250VAC
- IEC127/BS4265/CEE4 spec.
- 100 pieces: 10 ea. of 0.1A, 0.2A, 0.5A, 1A, 1.6A, 2A, 2.5A, 3A, 4A and 5A

Part No.	Mfr.	Part No.	1	10	25
645343	K/FF		\$15.95	\$14.95	\$13.95

EGE

## Resettable Fuses

★ Web Code: SBF

Polymer Positive Temperature Coefficient (PPTC) fuses improve product quality performance, and are resettable.

- Rated voltage: (V<sub>MAX</sub>): 60V
- Max. current: (I<sub>MAX</sub>): 40A
- Lead length (D): 7.6mm min. • Thickness (E): 3.1mm max.

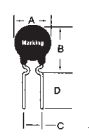


Fig. 1

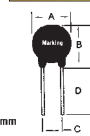


Fig. 2

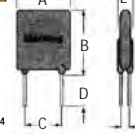


Fig. 3

Part No.	Mfr. P/N	Hold Curr. (I <sub>H</sub> , A)	Trip Curr. (I <sub>T</sub> , A)	Fig.	Size (mm)				Pricing		
					A	B	C	E	1	10	100
199832	RA020-60	0.20	0.40	1	7.4	12.2	5.1	3.1	\$4.49	\$.45	\$.39
199858	RA030-60	0.30	0.60	1	7.4	13.0	5.1	3.1	.59	.55	.49
199874	RA050-60	0.50	1.00	1	7.9	13.7	5.1	3.1	.59	.55	.49
199891	RA075-60	0.50	1.50	1	10.4	15.2	5.1	3.1	.45	.39	.35
199882	RA065-60	0.65	1.30	1	9.7	14.5	5.1	3.1	.59	.55	.49
199912	RA110-60	1.10	2.20	2	13.0	18.0	5.1	3.1	.59	.55	.49
199938	RA160-60	1.60	3.20	2	16.3	21.3	5.1	3.1	.59	.55	.49
200062	RB500-30	5.00	10.00	3	14.0	24.9	10.2	3.0	.69	.65	.59

JAMECO ValuePro

## Ceramic Resonators

- Frequency accuracy: ±0.5% @ 25°C
- Extended temp. range: -20°C to +85°C
- Withstanding volt. (5 sec): 100V max.

★ Web Code: CRS

Part No.	Product No.	Frequency	Resistance	Pins	1	10	100
324727	TZTT-8.00MT	8.0MHz	25Ω	3	\$.39	\$.35	\$.29
324566	TZTA-12.00MT	12.0MHz	25Ω	2	.39	.35	.29
324672	TZTT-20.00MT	20.0MHz	55Ω	3	.49	.45	.39

## LA Equivalent Series Radial Leaded Varistors

★ Web Code: CEF

			Continuous Voltage		Transient Energy	Max. Clamping Voltage		Pricing		
Part No.	*Mfr.	Product No.	V <sub>M(AC)</sub>	V <sub>M(DC)</sub>	Joules	V <sub>C</sub>	I <sub>PK(A)</sub>	1	10	100
34446	✦	V130LA10A	130	175	38	340	50	\$.39	\$.35	\$.29
34462	✦	V130LA20A	130	175	70	340	100	.59	.55	.49
667059	JVP	V130LA20B	130	200	140	340	100	.59	.55	.49
1776054	✦	V150LA10A	150	200	45	395	50	.35	.29	.25
667121	JVP	V150LA20A	150	240	170	395	100	.45	.39	.35
34471	✦	V250LA20	250	330	72	650	50	.39	.35	.29
2126221	✦	V275LA40A	275	369	140	710	100	.35	.29	.25
2129393	✦	B7220S301K501	300	385	173	775	100	.35	.29	.25

# Component Cabinet Kits

Includes the Most Popular Components with Extra Spaces for Your Customized Expansion

- Each kit includes drawer component cabinet (319600) and 20 plastic dividers (319611)
- Each kit has the most popular component in its category
- Each kit is designed for your specific expansion
- Includes identification labels for each drawer, with reorder numbers to replenish stock and blank adhesive labels for empty drawers
- Free standing or wall mountable cabinet • Weight of kits: 4.6 to 6.4 lbs.
- Cabinet size: 6.0"L x 15.0"W x 7.9"H • Drawer size: 5.5"L x 2.7"W x 1.5"H
- 20 clear plastic drawers (319601) and 20 dividers (319611) • Cabinet: ABS-black (P/N 319600 see pg 163)

20-drawer  
component cabinet  
with every kit!



85059 (Switch Kit)

81841 (Capacitor Kit)

## 7400 Series IC Kit

SAVE \$184

Includes 350 pcs. (30 Types) 7400 (TTL) Integrated Circuits

10 each	10 each	10 each	10 each	10 each	20 each
7402	7416	7432	74121	74157	7400
7405	7417	7438	74123	74160	7404
7408	7420	7447	74132	74174	7406
7410	7427	7485	74151	74175	7407
7414	7430	74107	74153	74279	7474

Part No.	Description	1	5
84953	350 pcs. 7400 series IC kit .....	\$249.95	\$229.95

## 74LS00 Series IC Kit

SAVE \$126

Includes 420 pcs. (35 Types) 74LS00 (TTL) Integrated Circuits

10 each	10 each	10 each	10 each	20 each
74LS05	74LS73	74LS125	74LS193	74LS00
74LS10	74LS75	74LS139	74LS240	74LS02
74LS11	74LS85	74LS151	74LS244	74LS04
74LS14	74LS86	74LS155	74LS245	74LS08
74LS20	74LS90	74LS157	74LS273	74LS32
74LS30	74LS93	74LS174	74LS373	74LS74
74LS47	74LS123	74LS175	74LS374	74LS138

84961	420 pcs. 74LS series IC kit .....	\$149.95	\$129.95
130391	Refill for 84961 (420 pcs.) .....	134.95	119.95

## CD4000 Series (CMOS) IC Kit

SAVE \$41

Includes 300 pcs. (25 Types) CD 4000 Series Integrated Circuits

10 each	10 each	10 each	10 each	20 each
CD4015	CD4024	CD4051	CD4093	CD4001
CD4016	CD4027	CD4069	CD4511	CD4011
CD4017	CD4040	CD4070	CD4538	CD4013
CD4020	CD4046	CD4071	CD4543	CD4049
CD4023	CD4050	CD4081	CD4584	CD4066

84970	300 pcs. CD 4000 series IC kit ....	\$79.95	\$69.95
130403	Refill for 84970 (300 pcs.) .....	64.95	59.95

## Linear IC Kit

Includes 480 pcs. (40 Types)

SAVE \$71

10 each	10 each	10 each	10 each	20 each
TL72CP	LM337T	LF412CN	ULN2803A	LM317T
TL74CN	LF353N	LMC555CN	NE5532N	LM324N
TL082CP	LF356N	LM556N	7808T	LM339N
TL084CN	LM358N	LM723CN	78L12CZ	LM741CN
MAX232CPE	LM386N-1	LM1458N	7815T	LM555CN
LM301N	LM386N-3	DS1488N	7905T	7805T
LM308N	LM393N	DS1489N	7912CT	78L05CZ
LM311N	LF411CN	ULN2003AN	7915CT	7812T

84988	480 pcs. (40 types) Linear IC kit ...	\$189.95	\$169.95
130411	Refill for 84988 (480 pcs.) .....	174.95	159.95

## Transistor Kit

Includes 560 pcs. (20 Types)

10 each	10 each	10 each	10 each	100 each
2N2222A	2N4401	MJE3055T	TIP31A	2N3904
2N2907A	2N4403	MPF102	TIP32A	2N3906
2N3053	2N5951	MPSA06	TIP102	PN2222
2N3055	2N7000	MPSA13	TIP120	PN2907

82595	560 pcs. Transistor kit .....	\$69.95	\$59.95
130374	Refill for 82595 (560 pcs.) .....	54.95	49.95

## Diode and Rectifier Kit

Includes 420 pcs. (15 Types) Zener Switching & Silicon Rectifiers

10 each	10 each	10 each	10 each	100 each
1N270	1N4007	1N4735A	1N5408	1N914
1N751A	1N4150	1N4742A	C106B1	1N4004
1N4001	1N4733A	1N5404	KBP04M	1N4148

82587	420 pcs. Diode kit .....	\$39.95	\$34.95
130366	Refill for 82587 (420 pcs.) .....	29.95	26.95

## 1/8-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 Values) 1/8-Watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	390Ω	2.2kΩ	6.8kΩ	47kΩ	100Ω	4.7kΩ
47Ω	470Ω	2.7kΩ	15kΩ	470kΩ	220Ω	10kΩ
150Ω	680Ω	3.3kΩ	22kΩ	1MΩ	1kΩ	100kΩ
270Ω	1.5kΩ	5.1kΩ	27kΩ	10MΩ	—	—
330Ω	2kΩ	5.6kΩ	33kΩ	—	—	—

Part No.	Description	1	5
108329	540 pcs. 1/8-watt Resistor kit ....	\$25.95	\$22.95
108303	Refill for 108329 (540 pcs.) .....	10.95	8.95

## 1/4-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 Values) 1/4-Watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	390Ω	2kΩ	5.6kΩ	47kΩ	100Ω	4.7kΩ
47Ω	470Ω	2.2kΩ	15kΩ	470kΩ	220Ω	10kΩ
150Ω	680Ω	2.7kΩ	20kΩ	1MΩ	1kΩ	100kΩ
270Ω	1.2kΩ	3.3kΩ	22kΩ	10MΩ	—	—
330Ω	1.5kΩ	5.1kΩ	33kΩ	—	—	—

81832	540 pcs. 1/4-watt Resistor kit ....	\$27.95	\$25.95
103166	Refill for 81832 (540 pcs.) .....	12.95	10.95

## 1/2-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 Values) 1/2-Watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	390Ω	2.2kΩ	6.8kΩ	47kΩ	100Ω	4.7kΩ
47Ω	470Ω	2.7kΩ	15kΩ	470kΩ	220Ω	10kΩ
150Ω	680Ω	3.3kΩ	22kΩ	1MΩ	1kΩ	100kΩ
270Ω	1.5kΩ	5.1kΩ	27kΩ	10MΩ	—	—
330Ω	2kΩ	5.6kΩ	33kΩ	—	—	—

107879	540 pcs. 1/2-watt Resistor kit ....	\$29.95	\$26.95
107853	Refill for 107879 (540 pcs.) .....	15.95	14.25

## 1/2-Watt Single Turn Cermet Pot Kit

Includes 100 pcs. (8 Types)

10 each	10 each	10 each	10 each	10 each
63P500Ω	63P2KΩ	63P10KΩ	63P50KΩ	63P500kΩ
63P1KΩ	63P5KΩ	63P20KΩ	63P100kΩ	63P1MΩ

85032	100 pcs. single turn Pot kit .....	\$74.95	\$64.95
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## 3/4-Watt 15 Turn Cermet Pot Kit

Includes 100 pcs. (10 Values) 3/4-Watt Linear Taper Potentiometer

10 each	10 each	10 each	10 each	10 each
43P500Ω	43P2KΩ	43P10KΩ	43P50KΩ	43P500kΩ
43P1KΩ	43P5KΩ	43P20KΩ	43P100kΩ	43P1MΩ

85041	100 pcs. 15 turn Pot kit .....	\$84.95	\$74.95
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## LEDs & Mounting Hardware Kit

Includes 560 pcs. (20 Types) LEDs and Mounting Hardware

SAVE \$15

10 each	10 each	10 each	10 each	100 each
11359	34657	34761	114673	23077
11797	34673	104248	114681	95513
14277	34690	104256	2006705	202471
34606	34711	104264	333569	2006730

84996	560 pcs. LED & Hardware kit ....	\$69.95	\$59.95
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## Switch Kit

SAVE \$64

Includes 150 pcs. (15 Types) Pushbutton, DIP & Toggle Switches

10 each	10 each	10 each	10 each	10 each
21910	21979	26358	26649	109171
21936	26315	26367	38818	139012
21952	26332	26623	76523	153252

85059	150 pcs. Switch kit .....	\$99.95	\$89.95
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## Spacers & Electronic Hardware Kit

Includes 2700 pcs. (27 Types) Spacer, Hex Nuts Flat, Tooth & Lock Washers and Slotted PH Screws

100 each	100 each	100 each	100 each	100 each	100 each
Spacers	Hex Nuts	Flat	Internal Tooth	Split Lock	PH Machine
—	2-56	#2	#2	#2	2-56 x 1/4, 1/2
4-40	4-40	#4	#4	#4	4-40 x 1/4, 1/2
6-32	6-32	#6	#6	#6	6-32 x 1/4, 1/2
8-32	8-32	#8	#8	#8	8-32 x 1/4, 1/2

Part No.	Description	1	5
108433	2700 pcs. Electronic Hardware kit .....	\$99.95	\$89.95

## Monolithic Ceramic Capacitor Kit

Includes 280 pcs. (10 Types) 50V ±20% Monolithic Ceramic Caps.

10 each	10 each	10 each	10 each	100 each
22pF	.001μF	.22μF	.47μF	.01μF
100pF	.047μF	.33μF	1μF	.1μF

171475	280 pcs. Monolithic Cap. kit .....	\$36.95	\$32.95
171483	Refill for 171475 (280 pcs.) .....	24.95	21.95

## Radial Electrolytic Capacitor Kit

Includes 240 pcs. (15 Values) Radial Electrolytic Capacitors

10 each	10 each	20 each	20 each	20 each
100μF @ 50V	1000μF @ 16V	1μF @ 50V	3.3μF @ 50V	22μF @ 50V
220μF @ 25V	2200μF @ 25V	1μF @ 100V	4.7μF @ 50V	47μF @ 50V
470μF @ 25V	3300μF @ 25V	2μF @ 50V	10μF @ 50V	100μF @ 25V

81867	240 pcs. Radial Capacitor kit .....	\$39.95	\$34.95
130331	for 81867 (240 pcs.) .....	29.95	24.95

## Axial Capacitor Kit

SAVE \$16

Includes 140 pcs. (10 Values) ±20% Axial Electrolytic Capacitors

10 each	10 each	10 each	20 each	20 each
47μF @ 50V	220μF @ 50V	1000μF @ 25V	1μF @ 50V	4.7μF @ 50V
100μF @ 50V	470μF @ 50V	2200μF @ 16V	2.2μF @ 50V	10μF @ 50V

81875	240 pcs. Axial Capacitor kit .....	\$39.95	\$34.95
130340	Refill for 81875 (140 pcs.) .....	26.95	23.95

## Ceramic Disc Capacitor Kit

SAVE \$16

Includes 520 pcs. (10 Values) 50V Ceramic Disc Capacitors

20 each	20 each	20 each	100 each	100 each
10pF	47pF	470pF	.022μF	.01μF
22pF	100pF	.001μF	.047μF	.1μF

81859	520 pcs. Ceramic Capacitor kit .....	\$39.95	\$34.95
130232	Refill for 81859 (520 pcs.) .....	26.95	23.95

## Mylar Capacitor Kit

SAVE \$21

Includes 280 pcs. (10 Values) 100V ±10% Mylar Capacitors

10 each	10 each	10 each	10 each	100 each
.001μF	.022μF	.047μF	.47μF	.01μF
.0068μF	.033μF	.22μF	1μF	.1μF

81883	280 pcs. Mylar Capacitor kit .....	\$39.95	\$34.95
130358	Refill for 81883 .....	29.95	24.95

## Dipped Tantalum Capacitor Kit

SAVE \$13

Includes 150 pcs. (15 Values) ±20% Dipped Tantalum Capacitors

10 each	10 each	10 each	10 each	10 each
.1μF @ 35V	1μF @ 25V	3.3μF @ 25V	10μF @ 16V	22μF @ 16V
.22μF @ 35V	1μF @ 16V	4.7μF @ 35V	10μF @ 35V	33μF @ 25V
.47μF @ 25V	2.2μF @ 16V	6.8μF @ 35V	15μF @ 25V	47μF @ 25V

81841	150 pcs. Tantalum Capacitor kit .....	\$79.95	\$69.95
130260	Refill for 81841 (150 pcs.) .....	64.95	54.95





135394 - Capacitors



135271 - LEDs



2125616 - LED Indicators



18294 - Toy Motors



149649 - Fans



55968 - Spacers



319600 - Cabinet

- Opened grab bags are not returnable
- Use our 20-drawer cabinet w/ labels to store your components, P/N 319600

Shaded in brown on this page you will find Jameco's nine (9) most popular component Grab Bags. They are all individually bagged, and are combined to make up the Schwab's School Selection (P/N 163213).

## Capacitor Assortments

Part No.	Product No.	Description	Wt. (lbs.)	1	10
17857	GB100	200 assorted ceramic disc capacitors	0.2	\$6.95	\$5.95
135335	GB100LB	900 assorted ceramic disc capacitors	1.0	14.95	12.95
17881	GB101	100 assorted mylar capacitors	0.3	5.95	4.95
135458	GB101LB	400 assorted mylar capacitors	1.0	14.95	12.95
17911	GB102	100 assorted electrolytic capacitors radial, axial, snap	0.5	6.95	5.95
135394	GB102LB	300 assorted electrolytic capacitors radial, axial, snap (photo above)	1.0	12.95	10.95
17945	GB103	100 assorted tantalum capacitors (dipped epoxy and solid tubular)	0.1	12.95	10.95

## Inductors and Chokes

Part No.	Product No.	Description	Wt. (lbs.)	1	10
2081342	GB200	100 assorted axial chokes & inductors	2.0	\$9.95	\$8.95

## Resistor and Resistor Network Assortments

Part No.	Product No.	Description	Wt. (lbs.)	1	10
134130	GB115	200 asst. 1/8, 1/4, 1/2 resistors (1,5&10%)	0.8	\$5.95	\$4.95
18104	GB116	200 assorted 1/4W resistors (1,5&10%)	0.1	4.95	3.95
135351	GB116LB	2000 assorted 1/4W resistors (1,5,8&10%)	0.8	14.95	12.95
18139	GB117	200 assorted 1/2W resistors (5&10%)	0.2	6.95	5.95
18163	GB118	200 asst. 1/8W resistor networks (2,5&8%) (8 & 10-pin SIP packages, 22Ω-150k)	0.3	4.95	4.49

## Trimmers, Single and Multi-Turn Potentiometers

Part No.	Product No.	Description	Wt. (lbs.)	1	10
18075	GB113	100 assorted 1/10W to 1/8W trimmer pots (100Ω to 2MΩ values)	0.1	6.95	\$5.95
18278	GB174	100 assorted 1/4W, 1/2W & 3/4W single/ multi-turn pots (100Ω to 5MΩ assorted values)	0.2	9.95	8.95
135407	GB174LB	300 assorted 1/4W, 1/2W & 3/4W single/ multi-turn pots (100Ω to 5MΩ assorted values)	1.0	19.95	17.95

## LEDs, Displays, Indicators and Photocells

Part No.	Product No.	Description	Wt. (lbs.)	1	10	25
18041	GB110	100 assorted sizes & colored LEDs (T1 & T1½ round and rectangular)	0.1	\$7.95	\$6.95	\$5.95
18323	GB186	500 assorted sizes #18041 LEDs	0.3	24.95	21.95	19.95
135271	GB110LB	1900 assorted #18041 LEDs	1.0	59.95	54.95	49.95
18201	GB162	50 assorted sizes of colored displays (7-segment LED, modules, stick)	0.5	10.95	9.95	8.95
2125616	GB205	30 assorted voltages, colors of neon incandescent: LED indicators	0.8	12.95	11.49	9.95
169578	GB125	100 assorted values photocells	0.2	21.95	19.95	17.95

## Schwab's Electronic Component School Selection

Jameco's nine (9) most popular Grab Bags (highlighted on this page) are all individually bagged. North Dakota Engineer, Loren Schwab, recommended this selection of products as a standard item. He also recommended a 20-drawer component cabinet with labels (319600, see photo above) for storage.

Includes: Ceramic and electrolytic capacitors, diodes, transistors, potentiometers, LEDs, 1/4W resistors, switches, spacers and standoffs.

Part No.	Product No.	Description	Wt. (lbs.)	1	10	50
163213	GB197	Schwab's School Selection	2.2	\$49.95	\$44.95	\$39.95
319600	6897CAB	20 drawer component cabinet	3.5	16.95	15.49	13.95

\$79.55  
Value



## Integrated Circuits, Sockets and Male Headers

Part No.	Product No.	Description	Wt. (lbs.)	1	10
17996	GB108	100 assorted TTL DIP & SMDs (74, 74ALS, 74HC, 74HCT, 74F, 74LS, 74S)	0.2	\$9.95	\$8.95
135280	GB108LB	400 assorted TTL series DIP & SMDs (same as P/N 17996, above)	1.0	24.95	22.49
18024	GB109	100 asst. linear series (NSC, Motorola, TI) TO-3, 8 & 14-pin DIP, SOIC packages	0.1	12.95	11.49
145242	GB109LB	300 assorted linear series (NSC, Motorola, TI) TO-3, 8 & 14-pin DIP, SOIC packages	0.5	29.95	26.95
105620	GB120	100 assorted sockets (DIP, PGA, SIMM, SIP)	0.3	6.95	5.95
135386	GB120LB	300 assorted sockets (DIP, PGA, SIMM, SIP)	1.0	14.95	12.95
2095138	GB204	100 asst. .079"/100 male headers (breakway) Straight, right angle, single and double row	0.3	9.95	8.95

## Diodes, Transistors and Crystals/Oscillators

Part No.	Product No.	Description	Wt. (lbs.)	1	10	25
17961	GB107	200 assorted diodes (zener, switching, silicon)	0.1	\$9.95	\$8.95	\$7.95
18171	GB127	100 assorted transistors (NPN, PNP, power)	0.1	7.95	6.95	5.95
114446	GB150	100 assorted crystals/oscillators	0.2	7.95	6.95	5.95

## Switches, Toy Motors, Gears and Fans

Part No.	Product No.	Description	Wt. (lbs.)	1	10
18235	GB165	50 assorted switches (toggle, pushbutton, rocker, slide)	0.4	\$8.95	\$7.95
135378	GB165LB	150 assorted #18235 switches	2.0	19.95	17.95
18294	GB182	5 assorted toy DC motors (1.5-24V)	0.5	7.95	6.95
149649	GB193	5 assorted AC&DC fans (photo above)	4.5	9.95	8.95
1943094	GB198	30 assorted gears & shafts, plastic/nylon (20, 22, 23, 26, 30, 58, 63 teeth vary)	0.3	12.95	10.95

## Spacer, Standoff and Terminal Assortments

Part No.	Product No.	Description	Wt. (lbs.)	1	10
55968	GB140	100 assorted 4-40, 6-32, 8-32 round/hex, alum/brass/nylon, spacers/standoffs	0.3	\$14.95	\$12.95
135423	GB140LB	300 assorted same as P/N 55968	1.0	29.95	26.95
2082118	GB203	100 assorted solderless terminals spade, ring, faston, butt, crimp types	0.2	7.95	6.95

## Screw Hardware & Drill Bit Assortments

Part No.	Product No.	Description	Wt. (lbs.)	1	10	25
171571	GB149	500 assorted types of screws, nuts, washers & lock washers	1.0	\$6.95	\$5.95	\$4.95
171635	GB149LB	1400 asst. same as P/N 171571	3.2	15.95	14.95	13.95
2082038	GB202	20 assorted drill bits 10 sizes: .021" (#75) thru .12" (#31)	0.3	14.95	13.49	11.95

## Bumpers and Rubber Feet Assortment

Part No.	Product No.	Description	1	10
2081385	GB201	100 assorted bumpers & adhesive rubber feet	\$8.95	\$7.95

## Surprise Electronic Component Grab Bag

Axial and radial electrolytics, monolithic, dipped silver mica and mylar capacitors, ICs, connectors, sockets, headers, thermistors, LEDs, resistor networks, diodes, standoffs, transistors, oscillators/resonators, inductors, crystals, resistors, pots and switches (1000 pcs.)

Our Best  
Seller!

Part No.	Product No.	Description	1	10
135263	GB191LB	1000 assorted pieces electronic components	\$19.95	\$17.95

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

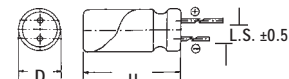
JAMECO ValuePro

## Aluminum Radial-Lead Polarized Electrolytic Capacitors (±20%) 85°C

\*Web Code: CCE



Leakage Current (20°C)	After 1 min.	0.03CV or 4μA, whichever is greater
	After 2 min.	0.01CV or 3μA, whichever is greater



† CROSS REFERENCES: Nichicon: LB/VX/USA/SR/SA/UVR; Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/USU

\* Order in multiples of 10 or 100

\* Order in multiples of 10 or 100

Part No.	Cross Ref. No. †	*Mfr.	Value (μF)	Volt	Size (mm) * D x H x L.S.	Pricing			
						1	10	100	500
609043	UVR2A0R1MDD	JVP	0.1	100	5 x 11 x 2	*	\$ .09	\$ .07	\$ .05
330465	RA0.47/50	JVP	0.47	50	5 x 11 x 2	*	.05	.04	.03
330431	RA1/25	JVP	1	25	5 x 11 x 2	*	.06	.05	.04
94161	5R1/50	JVP	1	50	4 x 5 x 1.5	*	.13	.10	.08
94326	7R1/50	♦	1	50	4 x 7 x 2.1	*	*	.009	.008
29831	R1/50	♦	1	50	5 x 11 x 2	*	.06	.05	.04
29833	R1/50	JVP	1	50	5 x 11 x 2	*	.08	.06	.05
330941	RN1/50	JVP	1	50	5 x 11 x 2	*	.15	.12	.09
115423	R1/63	♦	1	63	5 x 11 x 2	*	*	.009	.008
1946324	R2.2/6.3TR	♦	2.2	6.3	4 x 8 x 4.5	*	*	.009	.008
93729	R2.2/50	♦	2.2	50	5 x 11 x 2	*	.07	.05	.04
93731	R2.2/50	JVP	2.2	50	5 x 11 x 2	*	.08	.06	.05
135184	R3.3/50	JVP	3.3	50	5 x 11 x 2	*	.12	.09	.07
31000	R4.7/50	♦	4.7	50	5 x 11 x 2	*	.06	.05	.04
31002	R4.7/50	JVP	4.7	50	5 x 11 x 2	*	.08	.06	.05
212641	R4.7/100TR	JVP	4.7	100	5 x 11 x 5	*	.10	.08	.06
1946332	R10/6.3TR	♦	10	6.3	3 x 6 x 4	*	*	.009	.008
1946341	R10/6.3ATR	♦	10	6.3	4 x 7 x 5	*	.04	.03	.02
198839	R10J/16	JVP	10	16	5 x 11 x 2	*	.08	.06	.045
94212	5R10/25	JVP	10	25	4 x 5 x 1.5	*	.10	.08	.06
1946359	R10/25TR	♦	10	25	4 x 7 x 5	*	*	.009	.008
330916	RN10/25	JVP	10	25	5 x 11.5 x 1.5	*	.15	.12	.09
1946367	R10/25ATR	♦	10	25	5 x 11 x 5	*	.05	.04	.03
94221	5R10/35	JVP	10	35	5 x 5 x 2	*	.10	.08	.06
29891	R10/50	♦	10	50	5 x 11 x 2	*	.06	.05	.04
29893	R10/50	JVP	10	50	5 x 11 x 2	*	.10	.08	.06
330482	RA10/63	JVP	10	63	5 x 11 x 2	*	.10	.08	.06
330609	RA10/250	JVP	10	250	10 x 16 x 5	.35	.25	.19	.15
1946287	R22/10TR	♦	22	10	5 x 11 x 5	*	*	.009	.008
1946295	R22/16	♦	22	16	5 x 12 x 5	*	.05	.03	.015
1946308	R22/25TR	♦	22	25	5 x 11 x 5	*	.05	.03	.015
93739	R22/50	JVP	22	50	5 x 11 x 2	*	.08	.06	.05
1946316	R22/50TR	♦	22	50	5 x 12 x 5	*	.06	.04	.03
2125587	R33/35	JVP	33	35	6.3 x 5.6 x 2.5	*	.10	.08	.06
93747	R33/50	JVP	33	50	6.3 x 11 x 2.5	*	.11	.09	.07
1946244	R47/16TR	♦	47	16	5 x 12 x 5	*	*	.009	.008
198863	R47J/16	JVP	47	16	6.3 x 11 x 2.5	*	.08	.06	.05
198952	R47J/35	JVP	47	35	5 x 11 x 2	*	.10	.08	.06
1946252	R47/35TR	♦	47	35	6 x 12 x 5	*	.04	.03	.02
31114	R47/50	♦	47	50	6 x 11 x 2.5	*	.06	.05	.04
31116	R47/50	JVP	47	50	6.3 x 11 x 2.5	*	.11	.09	.07
330617	RA47/250	JVP	47	250	13 x 25 x 5	.55	.45	.35	.29
609289	UVR2V470MHD	JVP	47	350	16 x 35.5 x 7.5	.75	.55	.45	.35
330676	RA47/450	JVP	47	450	18 x 30 x 7.5	1.09	.89	.75	.59
1946261	R68/16TR	♦	68	16	5 x 11 x 5	*	.10	.05	.03
207811	R100/10	♦	100	10	5 x 11 x 2	*	*	.009	.008
330422	RA100/16	JVP	100	16	5 x 11 x 2	*	.10	.08	.06
94432	7R100/16	JVP	100	16	6 x 7 x 2.5	*	.08	.06	.05
94289	5R100/16	JVP	100	16	6.5 x 5 x 2.5	*	.15	.12	.09
93761	R100/25	♦	100	25	6 x 11 x 2.5	*	.08	.06	.05
198970	R100J/35	JVP	100	35	6.3 x 11 x 2.5	*	.10	.08	.06

Note: Above case sizes may have ± tolerances "TR" at the end of Cross Ref. numbers are Tape and Reel

Part No.	Cross Ref. No. †	*Mfr.	Value (μF)	Volt	Size (mm) * D x H x L.S.	Pricing			
						1	10	100	500
29962	R100/50	♦	100	50	8 x 11 x 3.5	*	\$ .10	\$ .08	\$ .06
29964	R100/50	JVP	100	50	8 x 11.5 x 3.5	*	.13	.10	.08
330529	RA100/100	JVP	100	100	10 x 17 x 5	*	.19	.15	.13
330580	RA100/160S	JVP	100	160	16 x 25 x 7.5	.65	.49	.39	.29
330625	RA100/250	JVP	100	250	16 x 31.5 x 7.5	1.09	.85	.65	.49
330684	RA100/450	JVP	100	450	22 x 42.5 x 10.5	2.49	2.25	1.95	1.69
198872	R220J/16	JVP	220	16	6.3 x 11 x 2.5	*	.11	.09	.07
30496	R220/25	♦	220	25	8 x 11 x 3.5	*	.10	.08	.06
30498	R220/25	JVP	220	25	8.5 x 11 x 3.5	*	.10	.08	.06
93772	R220/35	JVP	220	35	8 x 12 x 3.5	*	.15	.12	.09
93778	R220/50	♦	220	50	10 x 12 x 5	*	.14	.11	.08
609115	UVR2C221MHD	JVP	220	160	16 x 30 x 7.5	.75	.65	.59	.49
93796	R330/25	♦	330	25	10 x 12 x 5.0	*	.12	.09	.07
198978	R330J/35	JVP	330	35	10 x 12.5 x 5	*	.19	.15	.12
330473	RA330/50	JVP	330	50	10 x 16 x 5	.29	.22	.19	.14
1946279	R470/10TR	♦	470	10	6 x 11 x 5	*	*	.009	.008
93809	R470/16	♦	470	16	8 x 11 x 3.5	*	.13	.10	.08
93811	R470/16	JVP	470	16	8 x 11.5 x 3.5	.29	.22	.17	.14
31183	R470/25	JVP	470	25	10 x 12 x 3.5	.35	.25	.19	.15
31181	R470/25	♦	470	25	10 x 12 x 5	*	.19	.15	.12
93817	R470/35	♦	470	35	10 x 16 x 5	.29	.22	.17	.14
93819	R470/35	JVP	470	35	10 x 16 x 5	.39	.32	.25	.19
93827	R470/50	JVP	470	50	10 x 20 x 5	.39	.32	.25	.19
93825	R470/50	♦	470	50	12 x 20 x 5	.35	.25	.19	.15
158465	R470B63	JVP	470	63	13 x 20 x 5	.69	.55	.45	.35
199102	R470J/100	JVP	470	100	16 x 25 x 7.5	1.15	.89	.69	.55
330456	RA680/25S	JVP	680	25	8 x 16 x 3.5	1.09	.85	.65	.49
1945436	R1000/6.3	♦	1000	6.3	10 x 13 x 5	*	.09	.07	.05
30015	R1000/16	♦	1000	16	10 x 16 x 5	.25	.22	.16	.12
30017	R1000/16	JVP	1000	16	10 x 16 x 5	.35	.25	.19	.15
93833	R1000/25	♦	1000	25	10 x 20 x 5	.35	.25	.19	.15
93835	R1000/25	JVP	1000	25	10 x 20 x 5	.39	.32	.25	.19
93841	R1000/50	JVP	1000	50	6.5 x 11.3 x 2.2	.65	.49	.39	.32
93843	R1000/50	JVP	1000	50	13 x 25 x 5	.75	.59	.49	.39
199111	R1000J/100	JVP	1000	100	18 x 41 x 7.5	1.75	1.49	1.25	.99
30533	R2200/25	♦	2200	25	12 x 25 x 5.0	.65	.49	.39	.29
30535	R2200/25	JVP	2200	25	13 x 21 x 5	.69	.55	.45	.35
198986	R2200J/35	JVP	2200	35	16 x 25 x 7.5	.69	.55	.45	.39
608956	UVR1H222MHD	JVP	2200	50	16 x 30 x 7.5	1.15	.89	.69	.55
198898	R3300J/16	JVP	3300	16	13 x 21 x 5	.65	.49	.39	.29
30893	R3300/25	JVP	3300	25	13 x 29 x 5	.69	.55	.45	.35
198994	R3300J/35	JVP	3300	35	16 x 30 x 7.5	1.09	.89	.75	.59
198901	R4700J/16	JVP	4700	16	16 x 25 x 7.5	.85	.69	.55	.45
93850	R4700/25	♦	4700	25	16 x 31 x 7.5	.85	.69	.55	.45
199006	R4700J/35	JVP	4700	35	18 x 35 x 7.5	1.35	1.15	.99	.85
163302	R4700/50	JVP	4700	50	22 x 41 x 10	1.85	1.59	1.39	1.19
163301	R4700/50	♦	4700	50	22 x 42 x 10	1.65	1.39	1.19	1.05
198935	R6800J/25	JVP	6800	25	18 x 35.5 x 7.5	1.25	1.05	.85	.65
608892	UVR1A103MHD	JVP	10000	10	16 x 35.5 x 7.5	.69	.55	.45	.35
608948	UVR1C103MHD	JVP	10000	16	18 x 35 x 7.5	1.29	1.09	.95	.79

\*Capacitor dimensions and styles may vary on items with various manufacturers

\*Non-polarized

\* JVP = Jameco ValuePro | ♦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

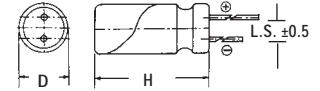
## Aluminum Radial-Lead Polarized Electrolytic Capacitors (±20%) 105°C

★ Web Code: HAA

105°C – HT Type General Purpose



Leakage Current (20°C)	After 1 min.	0.03CV or 4μA, whichever is greater
	After 2 min.	0.01CV or 3μA, whichever is greater



† CROSS REFERENCES: Nichicon: LB/VX/USA/SR/SAUPW/UVZ/UHE; Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU

\* Order in multiples of 10 or 100

\* Order in multiples of 10

Part No.	Cross Ref. No.†	*Mfr.	Value (μF)	Volt	Size (mm)* D x H x L.S.	Pricing			
						1	10	100	500
609545	UVZ1HOR1MDD	JVP	0.1	50	5 x 11 x 2	*	\$ .11	\$ .08	\$ .06
330772	RB1/50	JVP	1	50	5 x 11 x 2	*	.07	.05	.036
158491	R1B100	JVP	1	100	5 x 11 x 2	*	.12	.09	.07
609959	UVZ2E010MED	JVP	1	250	8 x 11 x 3.5	*	.19	.15	.12
609561	UVZ1H2R2MDD	JVP	2.2	50	5 x 11.5 x 2	*	.09	.06	.045
330781	RB4.7/50	JVP	4.7	50	5 x 11 x 2	*	.07	.05	.04
330692	RB10/16	JVP	10	16	5 x 11 x 2	*	.11	.08	.06
330799	RB10/50	JVP	10	50	5 x 11 x 2	*	.07	.05	.037
607849	UPW1H100MDD	JVP	10	50	5 x 11 x 2	*	.12	.09	.07
609641	UVZ1J100MDD	JVP	10	63	5 x 11 x 2	*	.15	.11	.09
610036	UVZ2V100MHD	JVP	10	450	13 x 21 x 5	.65	.49	.39	.32
158327	R22B35	JVP	22	35	5 x 11 x 2	*	.09	.06	.045
93737	RB22/50TR	JVP	22	50	6.5 x 8 x 2	*	.10	.08	.06
609650	UVZ1J220MDD	JVP	22	63	5 x 11 x 2	*	.10	.08	.06
609828	UVZ2C220MPD	JVP	22	160	10 x 15 x 5	.29	.25	.19	.15
609975	UVZ2E220MHD	JVP	22	250	13 x 20 x 5	.39	.35	.29	.25
607929	UPW1H270MHD	JVP	27	50	5 x 11 x 2	*	.09	.07	.05
608374	UPW2A330MPD	JVP	33	100	8 x 15 x 3.5	*	.12	.09	.07
609502	UVZ1C470MDD	JVP	47	16	5 x 11 x 2	*	.10	.07	.05
1945428	R47/35	♦	47	35	6.3 x 11 x 2	*	.10	.07	.05
330820	RB47/50	JVP	47	50	6.3 x 11 x 2.5	*	.11	.08	.06
2100241	RB47/100	♦	47	100	10 x 16 x 5	*	.12	.10	.08
610010	UVZ2E470MHD	JVP	47	250	13 x 25 x 5	.65	.49	.39	.32
606862	UHE1H560MED	JVP	56	50	8.0 x 11 x 3.5	*	.09	.05	.03
1946228	RB100/10	♦	100	10	5 x 11 x 3.5	*	*	.009	.008
330740	RB100/25	JVP	100	25	6.3 x 11 x 2.5	*	.11	.08	.06
158394	R100B50	JVP	100	50	8 x 11.5 x 3.5	*	.15	.12	.09
608032	UPL1J101MH6	♦	100	63	13 x 15 x 5	*	*	.009	.008
609748	UVZ2A101MPD	JVP	100	100	10 x 20 x 5	.39	.32	.25	.19
609967	UVZ2E101MHD	JVP	100	250	16 x 31 x 7.5	1.35	1.09	.85	.65
608340	ECA1JFQ151L	♦	150	63	10 x 21 x 5	*	.12	.09	.07
1946236	RB180/10	♦	180	10	6.5 x 11 x 2.5	*	*	.009	.008
207845	R180/16	JVP	180	16	6 x 15 x 2.5	*	.05	.03	.015
606934	EEUF1C1J181	♦	180	63	10 x 20 x 5	*	.12	.07	.04
606555	UHE1A221MED	JVP	220	10	6.3 x 11 x 2.5	*	.07	.05	.04
158263	R220B25	JVP	220	25	8 x 11 x 3.5	*	.15	.11	.08
93770	R220/35	JVP	220	35	10 x 16 x 5	*	.19	.15	.12
606820	UHE1H221MPD	JVP	220	50	10 x 16 x 5	.39	.32	.25	.19
609721	UVZ1V331MPD	JVP	330	35	10 x 16 x 5	*	.19	.15	.12

\*Capacitor dimensions and styles may vary on items with various manufacturers

Part No.	Cross Ref. No.†	*Mfr.	Value (μF)	Volt	Size (mm)* D x H x L.S.	Pricing			
						1	10	100	500
607136	UHE2A331MHD	JVP	330	100	12.5 x 40 x 5	.65	.59	.55	.49
609852	UVZ2C331MHD	JVP	330	160	18 x 40 x 7.5	.49	.45	.39	.35
606977	UHE1J391MHD	JVP	390	63	18 x 15 x 7.5	.29	.25	.19	.15
2126459	R470/16TR	JVP	470	16	10 x 13 x 5	*	.15	.12	.09
158203	R470B16	JVP	470	16	8 x 11 x 3.5	*	.19	.15	.12
158289	R470B25	♦	470	25	10 x 16 x 5	*	.19	.15	.12
606740	UHE1E471MPD6	JVP	470	25	10 x 17 x 5	.32	.25	.19	.15
606854	UHE1H471MPD	JVP	470	50	13 x 20 x 5	.45	.35	.29	.22
608016	UPW1H561MHD	JVP	560	50	13 x 25 x 5	.49	.39	.29	.25
606871	UHE1H681MHD	JVP	680	50	13 x 28 x 5	.85	.65	.49	.39
608163	UPW1J681MHD	JVP	680	63	16 x 25 x 5	.49	.39	.29	.25
607355	UPW0821MPD	JVP	820	6.3	14.5 x 8.2 x 3.5	.35	.29	.25	.19
607689	UPW1C821MPD	JVP	820	16	10 x 20 x 5	*	.19	.15	.12
606432	UHE1J102MPD	JVP	1000	6.3	8 x 14 x 3.5	*	.17	.12	.09
607363	UPW1A102MPD	JVP	1000	10	8 x 20 x 3.5	.45	.39	.35	.29
330722	RB1000/16	JVP	1000	16	10 x 20 x 5	.35	.29	.22	.17
158298	R1000B25	JVP	1000	25	10 x 17 x 5	.45	.35	.29	.22
158378	R1000B35	JVP	1000	35	13 x 21 x 5	.55	.45	.35	.25
609553	UVZ1H102MHD	JVP	1000	50	13 x 25 x 5	.55	.45	.35	.29
607216	UPW0J122MPD	JVP	1200	6.3	10 x 15 x 5	*	.15	.09	.07
606627	UHE1C122MPD	JVP	1200	16	10 x 24 x 5	.32	.25	.19	.15
607232	UPW0J152MPD	JVP	1500	6.3	10 x 20 x 5	.39	.32	.25	.19
607398	UPW1A152MPD	JVP	1500	10	10 x 20 x 5	.39	.32	.25	.19
607742	UPW1E152MHD	JVP	1500	25	12.5 x 25 x 5	.45	.35	.29	.25
607873	UPW1H152MHD	JVP	1500	50	16 x 30 x 7.5	.99	.89	.79	.69
606467	UHE0J182MHD	JVP	1800	6.3	10 x 20 x 5	.35	.25	.19	.15
607751	UPW1E182MHD	JVP	1800	25	13 x 25 x 5	.75	.59	.45	.35
609342	UVZ0J222MPD	JVP	2200	6.3	10 x 20 x 5	.39	.32	.25	.19
606563	UHE1A222MPD	JVP	2200	10	10 x 24 x 5	.45	.35	.29	.22
2126213	325006228PWS	CMC	2200	25	16 x 25 x 6	.49	.39	.29	.25
609705	UVZ1V222MHD	JVP	2200	35	16 x 26 x 7.5	.69	.55	.45	.35
158432	R2200B50	JVP	2200	50	16 x 30 x 7.5	.99	.79	.65	.55
608278	UPW1V332MHD	JVP	3300	35	18 x 33 x 7.5	1.35	1.15	.95	.75
609588	UVZ1H332MHD	JVP	3300	50	18 x 36 x 7.5	1.49	1.25	1.05	.85
607814	UPW1E472MHD	JVP	4700	25	18 x 39 x 7.5	1.25	1.05	.85	.65
2125641	R5600B16	JVP	5600	16	16 x 40 x 7.5	.99	.89	.79	.69
607697	UPW1C822MHD	JVP	8200	16	16 x 33 x 7.5	.75	.69	.63	.55
609473	UVZ1C103MHD	JVP	10000	16	18 x 41 x 7.5	1.19	.99	.89	.75
609326	UVZ0J153MHD	JVP	15000	6.3	16 x 35.5 x 7.5	.39	.35	.29	.25

\*Capacitor dimensions and styles may vary on items with various manufacturers

## Snap-Mount Large-Can Aluminum Electrolytic Capacitors (±20%)

- Operating temperature range: (SNA) -40°C to +85°C; (SNB) -40°C to +105°C
- Can-Top safety vent

★ Web Code: EBG



Part No.	Cross Ref. No.	*Mfr.	Value (μF)	Volt	Size (mm)* D x H x L.S.	Pricing		
						1	10	100
331846	SNA120/450	JVP	120	450	22 x 40 x 8.6	\$2.49	\$2.25	\$1.95
203263	SNB470/400/5	JVP	470	450	35 x 49 x 9	6.95	5.95	4.95
155889	SN560/200	♦	560	200	23 x 41 x 9.5	1.09	.99	.89
115378	SNB4700/35	JVP	4700	35	23 x 40 x 9	.99	.89	.79
331723	SNA4700/63	JVP	4700	63	25 x 40 x 9.1	3.49	3.15	2.85

\*Capacitor dimensions and styles may vary on items with various manufacturers

Part No.	Cross Ref. No.	*Mfr.	Value (μF)	Volt	Size (mm)* D x H x L.S.	Pricing		
						1	10	100
331901	SNB6800/50	JVP	6800	50	25.2 x 42.4 x 9	\$2.95	\$2.65	\$2.39
157738	SNB10000/50	JVP	10000	50	35 x 40 x 12	4.75	3.75	3.25
331716	SNA15000/25	JVP	15000	25	25 x 41 x 9	3.49	2.95	2.49
2120022	U32D†	♦	33000	50	35 x 117 x 13	9.95	8.95	7.95

\*Capacitor dimensions and styles may vary on items with various manufacturers

† Screw terminals

\* CMC = United Chemi-Con | JVP = Jameco ValuePro | ♦ Manufacturer Varies

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Electrolytic & Dipped Tantalum Capacitors

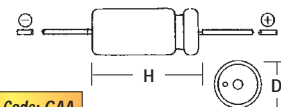
4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

JAMECO ValuePro

## Aluminum Axial-Lead Electrolytic Capacitors (±20%) 85°C



Operating temperature range	-40°C to +85°C
Leakage Current (After 2 minutes 20°C)	0.02CV or 2μA, whichever is greater



\* Web Code: GAA

\* Order in multiples 10 or 100

Part No.	Product No.	*Mfr.	Value (μF)	Voltage	Size (mm) * D x H	Pricing			
						1	10	100	500
10866	A1/50	◆	1	50V	5 x 13	*	\$ .17	\$ .14	\$ .11
10868	A1/50	JVP	1	50V	5 x 12	.29	.22	.17	.14
93569	A2.2/50	◆	2.2	50V	6 x 13	*	.19	.15	.12
11076	A4.7/50	◆	4.7	50V	6 x 13	*	.17	.14	.11
1946201	A10/16A	◆	10	16V	5 x 13	*	*	.009	.008
1946199	A10/16	◆	10	16V	4 x 7	*	*	.009	.008
10882	A10/50	◆	10	50V	6 x 12	*	.15	.12	.09
331425	AB10/450	JVP	10	450V	13 x 25	.95	.75	.59	.49
1946210	A22/16	◆	22	16V	5 x 11	*	*	.009	.008
199268	A22J/25	JVP	22	25V	6 x 12.5	*	.19	.15	.12
331433	AB22/450	JVP	22	450V	16 x 26.5	1.75	1.49	1.25	.99
2081730	A33/35	JVP	33	35V	7 x 14	*	.12	.09	.07
135319	A47/25	◆	47	25V	8 x 16	*	.17	.14	.11
11105	A47/50	◆	47	50V	8 x 16	.25	.22	.17	.14
199188	A100J/16	JVP	100	16V	6 x 12.5	.29	.22	.17	.14
93551	A100/35	◆	100	35V	8 x 16	.29	.22	.17	.14
10911	A100/50	◆	100	50V	8 x 20	.29	.22	.17	.14
10913	A100/50	JVP	100	50V	8 x 16	.32	.25	.19	.15
331380	AB100/100	JVP	100	100V	10 x 20.5	.29	.25	.19	.15

\* Capacitor dimensions and styles may vary on items with various manufacturers

Part No.	Product No.	*Mfr.	Value (μF)	Voltage	Size (mm) * D x H	Pricing			
						1	10	100	500
331417	AB100/250	JVP	100	250V	16 x 31	\$1.95	\$1.75	\$1.59	\$1.39
11019	A220/50	JVP	220	50V	10 x 17	.49	.39	.32	.27
199217	A470J/16	JVP	470	16V	8 x 17	.35	.29	.22	.17
199381	A470J/35	JVP	470	35V	10 x 21	.39	.32	.25	.19
11123	A470/50	JVP	470	50V	13 x 22	.75	.59	.49	.39
10954	A1000/25	◆	1000	25V	13 x 31	.65	.49	.39	.32
10956	A1000/25	JVP	1000	25V	10 x 20	.75	.59	.49	.39
93649	A1000/35	◆	1000	35V	13 x 26	.75	.59	.49	.39
93651	A1000/35	JVP	1000	35V	13 x 22	.85	.69	.59	.49
147256	A1000/50	◆	1000	50V	16 x 31	.75	.59	.49	.39
11033	A2200/16	◆	2200	16V	16 x 40	.85	.69	.59	.49
93658	A2200/35	JVP	2200	35V	16 x 30	1.25	.99	.79	.65
199479	A2200J/50	JVP	2200	50V	18 x 33	1.95	1.75	1.49	1.25
93666	A3300/25	JVP	3300	25V	16 x 30	.85	.65	.55	.49
199487	A3300J/50	JVP	3300	50V	22 x 43	2.49	2.25	1.95	1.75
93673	A4700/25	JVP	4700	25V	18 x 36	2.25	1.99	1.79	1.59
158811	A4700A50	JVP	4700	50V	22 x 43	2.49	2.25	1.95	1.75
93681	A10000/16	◆	10000	16V	22 x 51	1.95	1.75	1.49	1.25
93683	A10000/16	JVP	10000	16V	16 x 40	1.95	1.75	1.49	1.25

\* Capacitor dimensions and styles may vary on items with various manufacturers

JAMECO ValuePro

## Resin Dipped Solid Tantalum Capacitors (±10%)

- Operating temperature range: -55°C to +85°C (+125°C with derating)
- Exceptional temperature stability
- Flame retardant coating
- Designed for entertainment and commercial equipment
- Rated voltage DC: ≤ +85°C
- Moisture-resistant
- Low leakage current

\* Web Code: VAE



\* Order in multiples 10

Part No.	Product No.	*Mfr.	Value (μF)	Volt (V)	Size (mm) * D x H x L.S.	Pricing			
						1	10	100	500
545561	TAP104K035SCS	JVP	.10	35	4.0 x 6.0 x 2.5	\$ .39	\$ .32	\$ .25	\$ .19
33488	TM.1	JVP	.10	35	4.5 x 7.0 x 2.5	.39	.32	.25	.19
33486	TM.1/35	◆	.10	35	4.5 x 7.0 x 5.2	.32	.25	.19	.15
33523	TM.33/35	◆	.33	35	4.5 x 7.0 x 2.5	.32	.25	.19	.15
33525	TM.33	JVP	.33	35	4.5 x 7.0 x 2.5	.39	.32	.25	.19
33507	TM.22/35	◆	.22	35	4.5 x 7.0 x 5.0	.32	.25	.19	.15
33533	TM.47	JVP	.47	35	4.5 x 7.0 x 2.5	.39	.32	.25	.19
33531	TM.47/35	◆	.47	35	4.5 x 7.0 x 2.7	.32	.25	.19	.15
546142	TAP684K050SCS	JVP	.68	50	4.3 x 7.0 x 2.5	*	.19	.15	.12
545588	TAP105K025SCS	JVP	1	25	4.3 x 7.0 x 2.5	.39	.32	.25	.19
154862	TM1/25	JVP	1	25	4.5 x 7.0 x 2.5	.39	.32	.25	.19
154860	TM1/25	◆	1	25	4.5 x 7.0 x 4.7	.32	.25	.19	.15
545596	TAP105K035SCS	JVP	1	35	4.3 x 7.0 x 2.5	.39	.32	.25	.19
33664	TM1	JVP	1	35	4.5 x 7.0 x 2.5	.39	.32	.25	.19
33662	TM1/35	◆	1	35	4.5 x 7.0 x 2.7	.35	.29	.22	.17
545609	TAP105K050SCS	JVP	1	50	4.7 x 7.5 x 2.5	.59	.55	.45	.29
94003	TM2.2/16	JVP	2.2	16	4.5 x 7.0 x 2.5	.29	.25	.19	.15
94001	TM2.2/16	◆	2.2	16	4.5 x 7.0 x 4.7	.32	.25	.19	.15
33736	TM2.2/35	JVP	2.2	35	5.0 x 8.0 x 2.5	.35	.29	.25	.22
545941	TAP335K025SCS	JVP	3.3	25	4.3 x 7.0 x 2.5	.45	.35	.29	.22
94035	TM4.7/16	◆	4.7	16	5.0 x 8.0 x 2.5	.35	.29	.22	.17
546071	TAP475K025SCS	JVP	4.7	25	4.3 x 7.0 x 2.5	.55	.45	.35	.29
94043	TM4.7/25	◆	4.7	25	5.0 x 8.0 x 4.7	.45	.35	.29	.22
546089	TAP475K035SCS	JVP	4.7	35	4.7 x 7.5 x 2.5	.59	.49	.39	.32
33806	TM4.7/35	◆	4.7	35	5.5 x 9.5 x 2.5	.49	.39	.32	.25
546185	TAP685K025SCS	JVP	6.8	25	4.7 x 7.5 x 2.5	.49	.39	.32	.25

\* Capacitor dimensions and styles may vary

Note: Above case sizes may have ± tolerances

\* Order in multiples 10

Part No.	Product No.	*Mfr.	Value (μF)	Volt (V)	Size (mm) * D x H x L.S.	Pricing			
						1	10	100	500
33873	TM6.8/35	◆	6.8	35	6.5 x 9.0 x 4.7	\$ .45	\$ .35	\$ .29	\$ .22
545625	TAP106K010SCS	JVP	10	10	4.7 x 7.5 x 2.5	.49	.39	.32	.25
94060	TM10/16	◆	10	16	4.6 x 7.5 x 3.2	.49	.39	.32	.25
94062	TM10/16	JVP	10	16	5.0 x 8.0 x 2.5	.55	.45	.35	.29
545633	TAP106K020SCS	JVP	10	20	5.4 x 8.0 x 2.5	.45	.35	.29	.25
545641	TAP106K025SCS	JVP	10	25	5.4 x 8.0 x 2.5	.55	.45	.35	.29
94080	TM10/25	JVP	10	25	5.5 x 9.5 x 2.5	.59	.49	.39	.32
94078	TM10/25	◆	10	25	5.5 x 9.5 x 2.8	.55	.45	.35	.29
545650	TAP106K035SCS	JVP	10	35	5.4 x 8.0 x 2.5	1.15	.95	.79	.65
33691	TM10	JVP	10	35	5.5 x 11.0 x 2.5	.99	.79	.65	.49
33689	TM10/35	◆	10	35	6.5 x 11.0 x 4.7	.99	.79	.65	.49
332161	TDR10/50	JVP	10	50	8.5 x 13.0 x 2.5	.99	.95	.89	.85
545721	TAP156K010SCS	JVP	15	10	4.7 x 7.5 x 2.5	*	.09	.08	.07
33719	TM15/25	JVP	15	25	4.5 x 8.0 x 2.5	.79	.65	.49	.39
597468	TAP156K035SCS	JVP	15	35	5.5 x 9.5 x 4.7	.99	.89	.79	.69
33751	TM22/6.3	◆	22	6.3	4.7 x 7.5 x 2.5	.29	.25	.19	.15
545852	TAP226K016SCS	JVP	22	16	5.4 x 8.0 x 2.5	.69	.55	.45	.35
94095	TM22/16	JVP	22	16	5.5 x 9.5 x 2.5	.55	.45	.35	.29
94094	TM22/16	◆	22	16	5.5 x 9.5 x 4.1	.55	.45	.35	.29
545879	TAP226K025SCS	JVP	22	25	6.0 x 9.4 x 2.5	1.75	1.49	1.25	.99
94107	TM22/25	◆	22	25	8.5 x 13.0 x 3.2	1.25	1.09	.99	.89
545991	TAP336K016SCS	JVP	33	16	6.0 x 9.4 x 2.5	1.19	.95	.85	.65
33785	TM33/25	◆	33	25	8.5 x 13.0 x 4.7	1.75	1.49	1.25	.99
546100	TAP476K010SCS	JVP	47	10	6.0 x 9.4 x 2.5	1.25	.99	.79	.65
94123	TM47/16	◆	47	16	5.2 x 8.2 x 2.5	1.49	1.25	.99	.79
546118	TAP476K016SCS	JVP	47	16	6.0 x 9.4 x 2.5	1.75	1.49	1.25	.99

Dipped Tantalum Capacitors continued on next page

\* JVP = Jameco ValuePro | ◆ Manufacturer Varies

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 189.

## Resin Dipped Solid Tantalum Capacitors (±10%) (Continued)

★ Web Code: VAE

Part No.	Product No.	Mfr.	Value (μF)	Volt (V)	Size (mm)* D x H x L.S.	Pricing			
						1	10	100	1000
33822	TM47	◆	47	25	9.5 x 16.5 x 2.5	\$1.59	\$1.35	\$1.15	\$.99
546206	TAP686K006SCS	JVP	68	6.3	5.0 x 8.2 x 2.5	.79	.69	.59	.49
546222	TAP686K016SCS	JVP	68	16	7.0 x 11.0 x 2.5	1.49	1.25	1.09	.89
545668	TAP107K006SCS	JVP	100	6.3	6.0 x 9.4 x 2.5	1.39	1.19	.95	.85

\* Capacitor dimensions and styles may vary

Note: Above case sizes may have ± tolerances

Part No.	Product No.	Mfr.	Value (μF)	Volt (V)	Size (mm)* D x H x L.S.	Pricing			
						1	10	100	500
33700	TM100/35	◆	100	6.3	8.5 x 13.0 x 4.7	\$1.35	\$1.15	\$.95	\$.79
597450	TAP107K016CCS	JVP	100	16	7.0 x 11.0 x 2.5	2.75	2.49	2.25	1.95
545684	TAP107K020CCS	JVP	100	20	8.2 x 12.5 x 2.5	3.49	3.15	2.75	2.49
545772	TAP157K010CCS	JVP	150	10	7.0 x 11 x 2.5	1.95	1.79	1.49	1.29

## Ceramic Disc Capacitors (±5, ±10 or ±20%)

25, 50, 500 and 1000 Volt, Z5U Temperature Coefficient

★ Web Code: HBW



- Operating temp. range: +10°C to +85°C
- Capacitance change over temp. range: +22% to -56%

- Dielectric withstanding voltage: 2.5 times rated volt. for not < 1 sec.

\* Order in multiples of 10 or 100

\* Order in multiples of 10 or 100

Part No.	Product No.	Mfr.	Value	Volt (V)	Tol.	Dia. (mm)	Pricing				
							1	10	100	1000	5000
332291	CD3.3/1000	JVP	3.3pF	1000	20	5	*	\$1.19	\$1.15	\$1.13	\$0.99
15333	DC10	◆	10pF	50	20	5	*	.06	.04	.032	.025
332322	CD20/1000	JVP	20pF	1000	20	5	.29	.22	.17	.14	.11
332312	CD10/1000	JVP	10pF	1000	20	6	*	.15	.12	.09	.07
332217	CD33/50	JVP	33pF	50	20	5	*	.08	.06	.045	.035
15405	DC22	◆	22pF	50	20	6	*	.06	.04	.032	.025
15407	DC22	JVP	22pF	50	20	6	*	.07	.05	.035	.028
1947010	DC33TR	◆	33pF	100	10	5	*	.06	.04	.025	.01
1947028	DC33ATR	◆	33pF	500	5	5	*	*	.009	.008	.007
15512	DC47	JVP	47pF	50	20	5	*	.08	.06	.045	.039
1947036	DC47TR	◆	47pF	500	5	6	*	*	.009	.008	.007
332347	CD47/1000	JVP	47pF	1000	20	5	*	.06	.04	.03	.02
15341	DC100	◆	100pF	50	20	5	*	.06	.04	.03	.02
1947044	DC100TR	◆	100pF	100	10	8	*	.06	.04	.025	.015
332363	CD120/1000	JVP	120pF	1000	20	5	*	.14	.11	.09	.07
1947087	DC150ATR	◆	150pF	100	5	4	*	*	.009	.008	.007
1947052	DC150TR	◆	150pF	100	10	8	*	.05	.03	.02	.01
332371	CD150/1000	JVP	150pF	1000	20	5	*	.09	.07	.05	.04
15413	DC220	◆	220pF	50	20	5	*	.06	.04	.025	.015
1947132	DC220TR	◆	220pF	50	5	8	*	.06	.04	.025	.015
1947159	DC220ATR	◆	220pF	100	5	7	*	*	.009	.008	.007
1947239	DC220BTR	◆	220pF	500	10	10	*	*	.009	.008	.007
332380	CD220/1000	JVP	220pF	1000	20	5	*	*	.009	.008	.007
15448	DC330	◆	330pF	50	20	5	*	*	.009	.008	.007
1947301	DC330TR	◆	330pF	100	20	5	*	.06	.04	.02	.01
1947378	DC330ATR	◆	330pF	500	20	5	*	*	.009	.008	.007
15528	DC470	◆	470pF	50	20	5	*	.07	.05	.03	.025
1947319	DC470TR	◆	470pF	100	20	5	*	*	.009	.008	.007

TR at the end of Product Number are Tape and Reel

Part No.	Product No.	Mfr.	Value	Volt (V)	Tol.	Dia. (mm)	Pricing				
							1	10	100	1000	5000
15190	DC.001	◆	.001μF	50	20	6	*	.06	.04	.03	.02
15192	DC.001	JVP	.001μF	50	20	6	*	.06	.04	.025	.02
1947343	DC.001TR	◆	.001μF	100	20	4	*	*	.009	.008	.007
1947394	DC.001ATR	◆	.001μF	500	20	4	*	*	.009	.008	.007
1947415	DC.001BTR	◆	.001μF	500	10	7	*	*	.009	.008	.007
332436	CD1000/1000	JVP	.001μF	1000	20	5	.32	.25	.19	.15	.12
1947327	DC.0022TR	◆	.0022μF	25	20	4	*	.06	.04	.025	.015
1947386	DC.0022ATR	◆	.0022μF	500	20	7	*	*	.009	.008	.007
332443	CD2200/1000	JVP	.0022μF	1000	20	6	*	.15	.12	.10	.08
1947407	DC.0033	◆	.0033μF	500	20	9	*	.05	.03	.02	.015
15211	DC.0047	◆	.0047μF	50	20	6	*	.07	.05	.04	.025
1947335	DC.0047TR	◆	.0047μF	100	20	5	*	.06	.04	.025	.015
15229	DC.01	◆	.01μF	50	20	6	*	.06	.04	.032	.025
15231	DC.01	JVP	.01μF	50	20	6	*	.07	.05	.035	.03
97375	DC.01/1K20	◆	.01μF	1000	20	12	.29	.22	.17	.14	.11
97377	DC.01/1K20	JVP	.01μF	1000	20	12	.35	.29	.22	.17	.14
332487	CD20000/1000	JVP	.02μF	1000	20	16	.55	.45	.35	.29	.22
15245	DC.022	◆	.022μF	50	20	8	*	.08	.06	.045	.039
1947351	DC.047B	◆	.047μF	25	20	7	*	.08	.06	.04	.02
15253	DC.047	◆	.047μF	50	20	8	*	.09	.07	.045	.035
15255	DC.047	JVP	.047μF	50	20	8	*	.10	.08	.06	.05
332507	CD50000/1000	JVP	.05μF	1000	20	16	.99	.79	.65	.49	.39
151116	DC.1/25	◆	.1μF	25	20	6	*	.11	.08	.06	.05
151118	DC.1/25	JVP	.1μF	25	20	6	*	.12	.09	.07	.05
15270	DC.1	◆	.1μF	50	20	8	*	.19	.15	.12	.09
15272	DC.1	JVP	.1μF	50	20	8	.32	.25	.19	.15	.12
332516	CD100000/1000	JVP	.1μF	1000	20	21	1.49	1.25	1.09	.95	.79

TR at the end of Product Number are Tape and Reel

## Axial Leaded Ceramic Capacitors (±5, ±10, ±20 or ±100%)

50, 100 and 200 Volt, NPO, X7R and Z5U Temperature

★ Web Code: ACC

Order in multiples of 10 or 100

Order in multiples of 10

Part No.	Product No.	Mfr.	Value	Volt (V)	Temp Co-eff.	Tol.	Pricing		
							10	100	1000
546273	SA102A220JAA	JVP	22pF	200	NPO	5	\$.09	\$.06	\$.05
546265	SA102A101JAA	JVP	100pF	200	NPO	5	.12	.07	.05
546281	SA105A102JAA	JVP	1000pF	50	NPO	5	.12	.07	.05
546249	SA101C102KAA	JVP	1000pF	100	X7R	10	.07	.05	.03
1069763	SA101C222KAA	AVX	2200pF	100	X7R	10	*	.009	.008

Part No.	Product No.	Mfr.	Value	Volt (V)	Temp Co-eff.	Tol.	Pricing		
							10	100	1000
546290	P10R103K5	JVP	0.01μF	50	X7R	10	\$.15	\$.12	\$.09
546302	SA105E103MAA	JVP	0.01μF	50	Z5U	20	.10	.06	.04
546257	SA101C103KAA	JVP	0.01μF	100	XR7	100	.07	.05	.03
336542	P20R104K5	JVP	0.1μF	50	X7R	10	.12	.09	.07



We offer data sheets for most of the products we carry.

Find them easily on the product specification page.

[www.Jameco.com](http://www.Jameco.com)

\* AVX = AVX Corp. | JVP = Jameco ValuePro | ◆ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Ceramic & Metallized Capacitors

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

JAMECO ValuePro

## Monolithic Radial Ceramic Capacitors

### NPO (COG) Series (±5%)

\*Order in multiples of 10 or 100

Part No.	Product No.	Mfr.	Value	Volt. (V)	Size (mm)* W x T x H x L.S.	Pricing			
						10	100	1000	5000
332523	COG10/100	JVP	10pF	100	4.0 x 2.0 x 3.2 x 5.1	\$.12	\$.09	\$.07	\$.05
332541	COG22/100	JVP	22pF	100	3.6 x 2.3 x 3.6 x 2.5	\$.13	\$.09	\$.07	\$.05
2080358	RD15CG-240J	◆	24pF	50	4.0 x 2.0 x 3.6 x 2.5	◆	◆	◆	◆
2080323	RD15CG-390M	PDC	39pF	50	4.0 x 2.0 x 3.6 x 2.5	◆	◆	◆	◆
332567	COG47/100	JVP	47pF	100	3.8 x 2.0 x 3.3 x 2.5	\$.12	\$.09	\$.07	\$.05
332574	COG68/100	JVP	68pF	100	3.6 x 1.5 x 3.6 x 5.1	\$.12	\$.09	\$.07	\$.05
2080340	RD15CG-331J	PDC	330pF	50	4.0 x 2.0 x 3.6 x 2.5	◆	◆	◆	◆

### X7R Series (±10%)

\* Order in multiples of 10

Part No.	Product No.	Mfr.	Value	Volt. (V)	Size (mm)* W x T x H x L.S.	Pricing				
						1	10	100	1000	5000
332583	MOC100/100	JVP	100pF	100	5.0x5.0x3.0x2.5	◆	◆	◆	◆	◆
332612	MOC470/100	JVP	470pF	100	5.0x5.0x3.0x2.5	◆	◆	◆	◆	◆
544825	SR151C102KAA	JVP	1000pF	100	3.8x2.5x3.8x5.1	◆	◆	◆	◆	◆
544833	SR151C103KAA	JVP	.01μF	100	3.8x2.5x3.8x5.1	◆	◆	◆	◆	◆
597281	SR211C103KAA	JVP	.01μF	100	3.8x2.5x3.8x5.1	◆	◆	◆	◆	◆
332647	MOC10000/100	JVP	.01μF	100	5.0x5.0x3.0x2.5	◆	◆	◆	◆	◆
332655	MOC22000/100	JVP	.022μF	100	5.0x5.0x3.0x2.5	◆	◆	◆	◆	◆
544905	SR211C333KAA	JVP	.033μF	100	3.8x2.5x3.8x5.1	◆	◆	◆	◆	◆
544913	SR211C473KAA	JVP	.047μF	100	3.8x2.5x3.8x5.1	◆	◆	◆	◆	◆
544921	SR215C104KAA	JVP	.1μF	50	3.8x2.5x3.8x5.1	◆	◆	◆	◆	◆
544884	SR211C104KAA	JVP	.1μF	100	3.8x2.5x3.8x5.1	◆	◆	◆	◆	◆
332672	MOC100000/100	JVP	.1μF	100	5.0x5.0x3.0x2.5	◆	◆	◆	◆	◆
544948	SR305C474KAA	JVP	.47μF	50	3.8x2.5x3.8x5.1	◆	◆	◆	◆	◆

\* Capacitor dimensions and styles may vary † ±20% Note: Above case sizes may have ± tolerances

\* Ceramic Trimmer Capacitors — Enter Web Code PBZ

JAMECO ValuePro

## Ceramic Trimmer Capacitors

### 5mm

- Working voltage: 200VDC
- Turning torque: 35-200 g-cm
- Oper. temp. range: -30°C ~ +85°C
- Withstand volt.: 400VDC
- Q Factor @ 1MHz: >200
- Insulation resis.: >10MΩ min. @ 250VDC

Part No.	Capacitance Range (pF)	Color Code	1	10	100	1000
136979	9.0-50.0	Green	\$.49	\$.39	\$.32	\$.27

### 8mm (.315")

- Turning torque: 40-200 g-cm
- Operating temp. range: -55°C ~ +85°C
- Insulation resis.: 10MΩ min. @ 250VDC
- Withstand volt.: 550VDC
- Working volt.: 250VDC
- Q Factor @ 1MHz: >300

Part No.	Capacitance Range (pF)	Color Code	1	10	100	1000
134818	3.5-13.0	Ivory	\$.49	\$.39	\$.29	\$.19
32839	4.0-34.0	Yellow	1.15	.99	.85	.69
2077554	5.0-25.0	Blue	.69	.55	.45	.35
32855	6.0-70	Nil	.99	.85	.69	.59
94449	8.5-100	Purple	.99	.85	.69	.59
94466	8.5-120	Nil	.99	.85	.69	.59

## Memory Back-Up Capacitors

### Applications:

- Back-up on CMOS microcomputers, static RAM, DTSs (digital tuning systems)
- Memory back-up of remote controllers

### Features:

- Small size vs. capacitance
- Voltage: 5.5VDC, 8VDC

\*Web Code: SAB

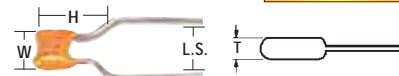


Part No.	Cross Ref. No.	Mfr.	Value (F)	Size (mm) L x T x Dia.	1	10	100
2082409	MBC.047/8	◆	0.047	13.7 x 7.8 x 13.1	◆	◆	◆
142949	MBC.22/5.5	JVP	0.22	11.8 x 6.4 x 12.8	3.95	3.49	2.95
142957	MBC1.0/5.5	◆	1.0	N/A x 7.4 x 20.8	4.25	3.75	3.25
227811	SSR5V105	◆	1.0	24.2 x 4.8 x 18.0	3.95	3.49	2.95

\*Motor Capacitors Available Online — Enter Web Code MCS

\*SMT Trimmer Capacitors Available Online — Enter Web Code SMT

- Data processing
- Communications engineering
- Operating temp. range: -10°C to +85°C



\*Web Code: JBVW

### Z5U Series (±20%)

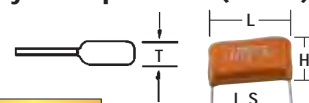
\* Order in multiples of 10

Part No.	Product No.	Mfr.	Value	Volt. (V)	Size (mm)* W x T x H x L.S.	Pricing			
						1	10	100	1000
81543	MD10	JVP	10pF	50	3.5 x 2.0 x 3.0 x 2.5	◆	◆	◆	◆
81533	MD22	◆	22pF	50	4.0 x 2.0 x 4.0 x 5.1	◆	◆	◆	◆
81525	MD100	◆	100pF	50	3.3 x 2.0 x 3.0 x 2.5	◆	◆	◆	◆
81517	MD.001	◆	.001μF	50	4.5 x 2.0 x 3.0 x 2.5	◆	◆	◆	◆
25507	MD.01	◆	.01μF	50	3.5 x 2.0 x 3.0 x 2.5	◆	◆	◆	◆
57621	MD.047	◆	.047μF	50	2.5 x 2.5 x 3.0 x 2.5	◆	◆	◆	◆
25523	MD.1	◆	.1μF	50	6.0 x 2.0 x 4.0 x 5.1	◆	◆	◆	◆
544868	SR205E104MAA	JVP	.1μF	50	4.0 x 2.6 x 3.8 x 2.5	◆	◆	◆	◆
25525	MD.1	JVP	.1μF	50	3.4 x 2.2 x 3.6 x 5.1	◆	◆	◆	◆
25540	MD.22	◆	.22μF	50	6.0 x 2.0 x 4.5 x 5.1	◆	◆	◆	◆
25541	MD.22	JVP	.22μF	50	6.0 x 2.0 x 4.5 x 2.5	◆	◆	◆	◆
138237	MD.33	◆	.33μF	50	6.0 x 2.0 x 8.0 x 5.1	◆	◆	◆	◆
544930	SR215E334MAA	JVP	.33μF	50	3.8 x 2.5 x 3.8 x 5.1	◆	◆	◆	◆
25558	MD.47	◆	.47μF	50	4.5 x 2.5 x 4.5 x 5.1	◆	◆	◆	◆
81509	MD1	◆	.1μF	50	6.0 x 3.0 x 7.0 x 5.1	.35	.29	.22	.17
544956	SR305E105MAA	JVP	.1μF	50	3.8 x 2.5 x 3.8 x 5.1	.39	.32	.25	.19

\* Capacitor dimensions and styles may vary Note: Above case sizes may have ± tolerances

## Metallized Polyester Film Mylar Capacitors (±10%)

- Non-inductive construction
- Operating temp. range: -40°C to +85°C
- Dissipation factor: 0.01 (at 1kHz)
- Dielectric strength: 150% of rated volt. for 5 sec.



\*Web Code: RAD

\* Order in multiples of 10

Part No.	Product No.	Value (μF)	Volt. (V)	Size (mm)* L x T x H x L.S.	Pricing			
					1	10	100	1000
26833	MY.001	.001	100	7.0 x 3.0 x 7.0 x 5.1	◆	◆	◆	◆
1946164	MY.0068	.0068	100	5.5 x 2.5 x 10.0 x 5.1	◆	◆	◆	◆
26884	MY.01	.01	100	6.0 x 3.0 x 7.0 x 5.1	◆	◆	◆	◆
207837	MY.018/50	.018	50	6.1 x 2.6 x 11.3 x 5.1	◆	◆	◆	◆
26905	MY.022	.022	100	6.0 x 3.0 x 10.0 x 5.1	◆	◆	◆	◆
26921	MY.033	.033	100	8.0 x 4.0 x 11.0 x 16.1	◆	◆	◆	◆
26930	MY.047	.047	100	8.0 x 4.0 x 12.0 x 5.1	◆	◆	◆	◆
1946172	MY.068	.068	100	8.6 x 4.0 x 11.0 x 7.6	◆	◆	◆	◆
135562	MY.1/50	.1 †	50	14.0 x 6.0 x 12.0 x 5.1	◆	◆	◆	◆
26956	MY.1	.1	100	12.5 x 5.0 x 9.5 x 7.6	◆	◆	◆	◆
93921	MY.1/250	.1	250	12.5 x 5.5 x 10 x 10.1	.29	.22	.17	.14
26972	MY.22	.22	100	12.5 x 5.5 x 10 x 7.6	◆	◆	◆	◆
1946181	MY.22SM	.22	100	12.5 x 5.0 x 8.5 x 10.1	◆	◆	◆	◆
93964	MY.33/250	.33	250	18.0 x 7.0 x 12.5 x 15.2	.32	.25	.19	.15
26999	MY.47	.47	100	18.0 x 6.0 x 11.5 x 16.1	.45	.35	.29	.22
27001	MY1	1.0	100	18.0 x 7.5 x 14.0 x 15.2	.55	.45	.35	.29
93981	MY1/250	1.0	250	26.0 x 9.0 x 16.0 x 15.2	.65	.49	.39	.32
93999	MY2.2/250	2.2	250	26.0 x 9.0 x 16.0 x 27.9	1.25	.99	.79	.65

† ±20% tolerance \* Capacitor dimensions and styles may vary on items with various manufacturers

## Panasonic® Metallized Film Capacitors (±5%)

### V Series – Stacked

- Operating temp. range: -40°C to 85°C
- Low dissipation factor: 1% max.

\*Web Code: RAD

Order in multiples of 10

Part No.	Mfr. Part No.	Value (μF)	Voltage	Dimensions (mm) W x H x Th. x L.S.	Pricing		
					10	100	500
920510	ECQ-V1H104JL	.1	50	7.3 x 4 x 5 x 5	\$.15	\$.12	\$.09
920595	ECQ-V1H474JL	.47	50	7.3 x 6 x 7.3 x 5	.22	.17	.14

\* JVP = Jameco ValuePro | PDC = Prosperity Dielectric Co. | ◆ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

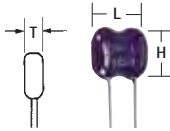


## Dipped Silver Mica Capacitors (±5%)

### Metallized Polyester Film

- Case type: DM15
- Lead space: 0.23"
- Operating temp. range: -55° to +125°C
- Tolerance: ±5%

★ Web Code: HAB



Part No.	Product No.	Value	Volt. (V)	Size (mm) L x T x H*	1	10	100	1000
15991	DM100	10pF	500	11 x 4 x 9	\$.69	\$.65	\$.59	\$.55
16037	DM220	22pF	500	11 x 4 x 9	.59	.49	.39	.32
16096	DM470	47pF	500	11 x 4 x 9	.69	.65	.59	.55
16002	DM101	100pF	500	11 x 4 x 9	.69	.65	.59	.55
16088	DM331	330pF	500	11 x 4 x 9	.95	.75	.59	.49
16109	DM471	470pF	500	11 x 4 x 9	1.09	.89	.69	.55
16011	DM102	1000pF	100	11 x 4 x 9	1.35	1.15	.95	.79

\*Capacitor dimensions and styles may vary

## Expanded Offering of Thousands of Prosperity SMT Multilayer Ceramic Chip Capacitors at [www.Jameco.com](http://www.Jameco.com)

- Temperature range: -55°C to 125°C

- General purpose

### MA Series:

★ MA0603 – 1 value — P/N 2079744

★ MA0805 – 13 values — Web Code: ZAK

★ MA1206 – 13 values — Web Code: ZAL

★ MA1210 – 1 value — P/N 2079912

★ MA1812 – 1 value — P/N 2079921

Order in multiples of 100

Part No.	100	1000	4000	8000
2079744	\$.009	\$.008	\$.007	\$.006
MA0805	.009	.008	.007	.006
MA1206	.009	.008	.007	.006
2079912	.009	.008	.007	.006
2079921	.009	.008	.007	.006

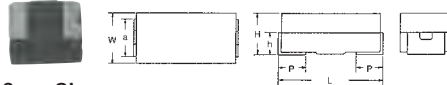
**For Passive Component Testers See Page 140**

★ SMD Aluminum Electrolytic Capacitors Available Online — Enter Web Code BCE

JAMECO ValuePro

## Resin Molded Solid Tantalum Chip Capacitors (±10%)

★ Web Code: WAE



### Case Size (Dimensions in mm)

EIA Case Code	L ±0.2	W ±0.2	H ±0.2	P ±0.3	a ±0.2	h(min)
A (3216-18)	3.2	1.6	1.7	0.8	1.2	0.7
B (3528-21)	3.5	2.8	1.9	0.8	2.2	0.7
C (6032-28)	6.0	3.2	2.6	1.3	2.2	1.0
D (7343-31)	7.3	4.3	2.9	1.3	2.4	1.0

\* Order in multiples of 10 or 100

Part No.	Case Size	Value (µF)	Low ESR	Volt.	1	10	100	1000
544964	⌘ A	0.1µF	35	*	*	\$.009	\$.008	
544972	⌘ A	0.1µF	50	*	*	\$.009	\$.008	
544981	⌘ A	1µF	16	*	*	\$.009	\$.008	
597290	⌘ A	1µF	35	*	*	\$.009	\$.008	
545043	⌘ A	2.2µF	16	*	*	\$.009	\$.008	
545051	⌘ A	3.3µF	16	*	*	\$.009	\$.008	

\* Order in multiples of 10 or 100

Part No.	Case Size	Value (µF)	Low ESR	Volt.	1	10	100	1000
597329	⌘ A	*4.7µF	10	*	\$.09	\$.07	\$.05	
545086	⌘ A	6.8µF	10	*	*	\$.009	\$.008	
545027	⌘ A	10µF	6.3	*	*	\$.009	\$.008	
597311	⌘ A	*10µF	6.3	*	.09	.07	.05	
850224	⌘ A	10pF	16	*	.29	.25	.22	.19
545115	⌘ A	*15µF	10	*	.09	.07	.05	
545158	⌘ B	2.2µF	35	*	.09	.07	.05	
545174	⌘ B	4.7µF	16	*	*	\$.009	\$.008	
597337	⌘ B	*10µF	16	*	.12	.09	.07	
545166	⌘ B	22µF	16	*	.12	.09	.07	
545203	⌘ B	47µF	10	*	.19	.17	.15	
545254	⌘ C	2.2µF	35	*	.09	.07	.05	
545262	⌘ C	3.3µF	35	*	.12	.09	.07	
545300	⌘ C	22µF	16	*	.12	.09	.07	
545297	⌘ C	100µF	10	*	.29	.25	.19	.15

\* Order in multiples of 10

Part No.	Case Size	Value (µF)	Low ESR	Volt.	1	10	100	1000
545385	⌘ D	4.7µF	35	*	\$.29	\$.25	\$.22	\$.19
545326	⌘ D	10µF	35	*	.19	.17	.15	
545334	⌘ D	15µF	35	*	.29	.25	.22	.19
597388	⌘ D	*15µF	35	*	.29	.25	.22	.19
545342	⌘ D	22µF	25	*	.19	.17	.15	
597396	⌘ D	*22µF	25	*	.29	.25	.22	.19
545351	⌘ D	22µF	35	*	.99	.89	.79	.65
597433	⌘ D	*22µF	35	*	.99	.89	.79	.65
597417	⌘ D	*47µF	16	*	.29	.25	.22	.19
545406	⌘ D	47µF	25	*	.39	.35	.29	.25
545553	⌘ D	68µF	20	*	.99	.89	.79	.65
545422	⌘ D	100µF	10	*	.29	.25	.22	.19
545473	⌘ D	150µF	10	*	.39	.35	.29	.25
545369	⌘ D	220µF	10	*	.39	.35	.29	.25
597441	⌘ D	*220µF	10	*	.99	.89	.79	.65

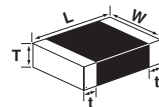
## Multilayer Ceramic Chip Capacitors

★ Web Code: MCD

\* Order in multiples of 10 or 100

### SMT Case Dimensions (mm)

	0402	0603	0805	1206	1210	1812
L	1.0	1.6	2.0	3.2	3.2	4.5
W	0.5	0.81	1.25	1.6	2.5	3.2
T	1.02	1.02	0.65	1.55	1.02	1.52
t	0.25	0.35	0.25	0.5	0.5	0.61



\* Order in multiples of 10 or 100

Part No.	* Mfr.	Case	Value	Volt.	Tolerance	Temp.	1	10	100	1000
646135	⬢	0402	47pF	50	5	NPO	*	*	\$.009	\$.008
646178	⬢	0402	100pF	50	5	NPO	*	*	\$.009	\$.008
543742	JVP	0402	220pF	50	10	NPO	*	*	\$.009	\$.008
543777	JVP	0402	0.1µF	16	+80/-20	Y5V	*	*	\$.009	\$.008
646910	⬢	0603	100pF	50	5	NPO	*	*	\$.009	\$.008
544008	JVP	0603	330pF	50	5	NPO	*	*	\$.009	\$.008
649483	⬢	0603	1000pF	50	10	X7R	*	*	\$.009	\$.008
649598	⬢	0603	8200pF	50	10	X7R	*	*	\$.009	\$.008
735322	AVX	0603	0.01µF	50	5	X7R	*	*	\$.009	\$.008
1929031	AVX	0603	0.1µF	25	10	X7R	*	*	\$.009	\$.008
649766	⬢	0603	2.2µF	6.3	10	X5R	*	*	\$.009	\$.008
649774	⬢	0603	4.7µF	6.3	10	X5R	*	*	\$.009	\$.008
650020	⬢	0805	27pF	50	5	NPO	*	*	\$.009	\$.008
736026	AVX	0805	30pF	50	5	NPO	*	*	\$.009	\$.008
650097	⬢	0805	100pF	50	5	NPO	*	*	\$.009	\$.008
650126	⬢	0805	180pF	50	5	NPO	*	*	\$.009	\$.008
650193	⬢	0805	680pF	50	5	NPO	*	*	\$.009	\$.008

Part No.	* Mfr.	Case	Value	Volt.	Tolerance	Temp.	1	10	100	1000
544323	JVP	0805	1000pF	50	10	X7R	*	*	\$.009	\$.008
544278	⬢	0805	2200pF	50	5	NPO	*	*	\$.009	\$.008
544331	JVP	0805	0.01µF	50	10	X7R	*	*	\$.009	\$.008
87177	JVP	0805	0.1µF	50	20	Z5U	*	*	\$.009	\$.008
650484	⬢	0805	0.33µF	25	10	X5R	*	*	\$.009	\$.008
650492	⬢	0805	0.47µF	25	10	X5R	*	*	\$.009	\$.008
650687	⬢	0805	1.0µF	16	+80/-20	Y5V	*	*	\$.009	\$.008
650505	⬢	0805	1.0µF	25	10	X5R	*	*	\$.009	\$.008
544489	JVP	0805	2.2µF	10	10	X5R	*	*	\$.009	\$.008
650521	⬢	0805	2.2µF	16	10	X5R	*	*	\$.009	\$.008
650556	⬢	0805	3.3µF	10	10	X5R	*	*	\$.009	\$.008
544420	JVP	0805	4.7µF	6.3	10	X5R	*	*	\$.009	\$.008
650581	⬢	0805	10µF	6.3	10	X5R	*	*	\$.009	\$.008
1858797	MUR	0805	10µF	16	+80/-20	Y5V	*	.12	.07	.05
544497	JVP	1206	10pF	100	5	NPO	*	*	\$.009	\$.008
544542	JVP	1206	33pF	100	5	NPO	*	*	\$.009	\$.008
544569	JVP	1206	47pF	100	5	NPO	*	*	\$.009	\$.008
650880	⬢	1206	68pF	50	5	NPO	*	*	\$.009	\$.008
544551	JVP	1206	330pF	100	5	NPO	*	*	\$.009	\$.008
544577	JVP	1206	680pF	100	5	NPO	*	*	\$.009	\$.008
544681	JVP	1206	1000pF	50	5	NPO	*	*	\$.009	\$.008
544518	JVP	1206	1000pF	100	5	NPO	*	*	\$.009	\$.008

Multilayer Ceramic Chip Capacitors continued on next page

\* AVX = AVX Corp. | JVP = Jameco ValuePro | MUR = Murata Electronics | ⬢ Manufacturer Varies

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

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## Multilayer Ceramic Chip Capacitors (Continued)

★ Web Code: MCD

\* Order in multiples of 10 or 100

Part No.	*Mfr.	Case	Value	Volt.	Tolerance	Temp.	1	10	100	1000
544526	JVP	1206	1500pF	100	5	NPO	*	*	\$ .009	\$ .008
651057	♦	1206	1800pF	50	5	NPO	*	*	.009	.008
544690	JVP	1206	2200pF	50	5	NPO	*	*	.009	.008
651209	♦	1206	4700pF	50	10	X7R	*	*	.009	.008
651102	♦	1206	4700pF	50	5	NPO	*	*	.009	.008
651111	♦	1206	5600pF	50	5	NPO	*	*	.009	.008
87329	♦	1206	0.01μF	50	10	X7R	*	*	.009	.008
740607	PDC	1206	0.1μF	50	20	Z5U	*	.04	.039	.035
87388	♦	1206	0.1μF	50	10	X7R	*	.09	.07	.06
544606	JVP	1206	0.1μF	100	10	X7R	*	*	.009	.008
544711	JVP	1206	0.22μF	50	10	X7R	*	*	.009	.008
651399	♦	1206	0.27μF	50	10	X7R	*	*	.009	.008
544729	JVP	1206	0.33μF	50	10	X7R	*	*	.009	.008
544673	JVP	1206	0.47μF	25	10	X7R	*	*	.009	.008
651410	♦	1206	0.47μF	50	10	X7R	*	*	.009	.008
87222	JVP	1206	0.47μF	50	20	Z5U	*	.15	.12	.09
651479	♦	1206	2.2μF	16	10	X5R	*	*	.009	.008
651452	♦	1206	2.2μF	25	10	X5R	*	*	.009	.008
651508	♦	1206	4.7μF	10	10	X5R	*	*	.009	.008
544745	JVP	1206	4.7μF	16	+80/-20	Y5V	*	*	.009	.008
651532	♦	1206	10μF	6.3	10	X5R	*	*	.009	.008

\* Order in multiples of 10 or 100

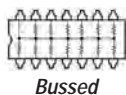
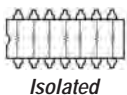
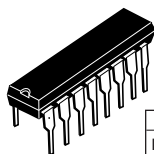
Part No.	*Mfr.	Case	Value	Volt.	Tolerance	Temp.	1	10	100	1000
651495	♦	1206	10μF	16	10	X5R	*	\$ .15	\$ .09	\$ .07
651524	♦	1206	22μF	6.3	10	X5R	*	.19	.15	.12
651612	♦	1210	0.1μF	50	10	X7R	*	*	.009	.008
544761	JVP	1210	0.1μF	100	10	X7R	*	.15	.12	.09
544788	JVP	1210	0.22μF	50	10	X7R	*	*	.009	.008
651647	♦	1210	0.33μF	50	10	X7R	*	*	.009	.008
651655	♦	1210	0.47μF	50	10	X7R	*	*	.009	.008
651663	♦	1210	1.0μF	50	10	X7R	*	.15	.09	.07
651671	♦	1210	2.2μF	25	10	X7R	*	*	.009	.008
651680	♦	1210	4.7μF	16	10	X7R	*	.19	.15	.12
651698	♦	1210	10μF	10	10	X7R	*	.19	.15	.12
651786	♦	1210	10μF	10	10	X5R	*	.19	.15	.12
651735	♦	1210	10μF	16	10	X5R	*	.15	.09	.07
651719	♦	1210	10μF	25	10	X5R	*	.19	.15	.12
651751	♦	1210	22μF	6.3	10	X5R	.39	.35	.29	.25
651794	♦	1210	22μF	10	10	X5R	.39	.35	.29	.25
651743	♦	1210	22μF	16	10	X5R	.39	.35	.29	.25
651760	♦	1210	47μF	6.3	10	X5R	.99	.89	.79	.69
651778	♦	1210	100μF	6.3	20	X5R	.99	.89	.79	.69
651831	♦	1812	1μF	50	10	X5R	*	.09	.07	.05
651858	♦	1812	22μF	10	10	X5R	.39	.35	.29	.25

## Dual-In-Line "DIP" Resistor Networks ±2% (G)

★ Web Code: GAP

### 16-Pin (140mW/Resistor) ±2%

- Max. operating voltage: 100V
- Temp. coefficient: ±100ppm/°C
- Operating temp.: -55°C to +125°C
- Insulation res.: 10,000MΩ min.
- Lead solderability/solvent resistance: meets requirements of MIL-R-83401



	1	10	100	500
Pricing	\$ .59	\$ .55	\$ .49	\$ .45
Orange Pricing	*	.19	.15	.12

Part No.	Ohms
164005	33
108556	100
856095	120
108564	220

Part No.	Ohms
108572	330
108581	470
108599	1.0k
87601	1.0k*

Part No.	Ohms
108610	4.7k
108628	10k
108644	100k

\* Bussed



## SIP Conformal Coated Resistor Networks ±2% (G) and ±5% (J)

- Rated power per resistor at 70°C: 125m w/ resistor
- Insulation resistance: 10,000MΩ min. at 100V
- Operating temperature: -55°C to 125°C
- Resistor temperature coefficient: 200ppm/°C
- Low profile is compatible w/ DIPs

- Common circuit

★ Web Code: WRN



Order in multiples of 10

### 6-Pin Bussed (±2%)

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
267098	10	267856	510	268040	12k	268189	150k
267670	22	267864	560	268058	15k	268197	180k
267688	27	267910	1.5k	268066	18k	268200	220k
267696	33	267928	1.8k	268082	22k	268218	270k
267709	39	267936	2k	268091	27k	268226	330k
267717	47	267944	2.2k	268104	33k	268234	390k
267725	51	267952	2.7k	268111	39k	268242	470k
267733	56	267979	3.9k	268120	47k	268251	560k
267741	68	268007	5.6k	268138	56k	268269	680k
267750	82	268015	6.8k	268146	68k	268277	820k
267776	120	268023	8.2k	268154	82k	268285	1M
267792	180	268032	10k	268171	120k		

### 8-Pin Isolated (±2%)

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
2078021	22	2078039	47	2078055	75	2078071	1.5k
2077984	27	2078047	68	2078135	270	2099956	15k

### 8-Pin Isolated (±5%)

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
2078119	33	2078127	47	2078098	560	2078012	4.7k
2078101	39	2077992	510	2078004	2.2k	2099964	680

### 8-Pin Bussed (±2%)

Part No.	Ohms	Part No.	Ohms	(G) Part No.	Ohms	Part No.	Ohms
267354	10	276040	510	276234	12k	276373	150k
275872	27	276074	820	276242	15k	276381	180k
275881	33	276091	1.2k	276251	18k	276390	220k
275899	39	276104	1.5k	2077941	20k	276402	270k
275901	47	276111	1.8k	276277	22k	276411	330k
2077896	56	97797	2.2k	276285	27k	276429	390k
275936	68	2077968	2.7k	276293	33k	276437	470k
275944	82	276163	3.9k	276306	39k	276445	560k
275987	180	276189	5.1k	276331	68k	276453	680k
275995	220	276197	5.6k	276349	82k	276461	820k
276007	270	276200	6.8k	276365	120k	276470	1M
97762	470	97826	10k				

### 8-Pin Bussed (±5%)

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
2077829	10	2077909	56	2077950	4.7k	2077634	82k
2077853	22	2077837	150	2077802	8.2k	2077773	150k
2077861	33	2077845	1k	2077925	10k		

### 10-Pin Isolated (\* ±2; † ±5%)

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
97586	330*	2078063	470†	772537	4.7k*	2078143	47k†
97594	470*	2077976	680*	2078080	10k†		

	10	10	100	500	500
6-pin 2%	\$ .19	\$ .07	\$ .15	\$ .05	\$ .12
8-pin 2%	.19	.07	.15	.05	.12
8-pin 5%	.19	.07	.15	.05	.12
10-pin 2%	.19	.09	.15	.07	.12
10-pin 5%	.19	.09	.15	.07	.12

### 10-Pin Bussed (±2%)

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
267418	10	2077749	820	280920	6.8k	98095	100k
280583	22	97877	1k	280938	8.2k	281084	120k
280591	27	280816	1.2k	24643	10k	281105	180k
2077706	33	280823	1.5k	280971	18k	281113	220k
280612	39	280831	1.8k	2077933	20k	281121	270k
280621	47	2077870	2k	281025	39k	281130	330k
280663	82	97893	2.2k	281034	47k	281148	390k
97834	100	24660	4.7k	281041	56k	281172	680k
97851	330	280903	5.1k	281050	68k	281181	820k
97869	470	2077757	5.6k	281068	82k	281199	1M

### 10-Pin Bussed (±5%)

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
2077765	18	2077669	100	2077693	2k	2077722	47k
2077642	22	2077677	180	2077714	10k	2077731	100k
2077651	33	2077888	470				

\* JVP = Jameco ValuePro | PDC = Prosperity | ♦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

## 1/8-Watt Carbon Film Resistor (±5%) Assortment

Part No.	Cross Ref.	Values	Description (see chart, right)	1	5
108303	ASST1830R	X #	10 ea. of 24 values marked by X and 50 ea. of 6 values marked below by # (540 pcs.)	\$10.95	\$8.95
108329	CAB182R	—	1/8 watt resistor component cabinet kit 30 values (540 pcs.) see page 38	25.95	22.95

### 1/8-Watt Resistors sold in bags of 100

Specify Part No. & Resistor Value	1	10	50	250
(see Standard Resistor Values Chart below)	\$4.00	\$2.00	\$1.00	\$.75

### 1/8-Watt Resistor Assortment Values (Ohms)

10 X	150 X	330 X	680 X	2.0k X	3.3k X	5.6k X	15k X	33k X	470k X
47 X	220 #	390 X	1.0k #	2.2k X	4.7k #	6.8k X	22k X	47k X	1.0M X
100 #	270 X	470 X	1.5k X	2.7k X	5.1k X	10k #	27k X	100k #	10M X

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
107916	100	1849591	10k	108214	100k
108118	6.8k	108185	33k		

## 1/4-Watt Carbon Film Resistors (±5%) RoHS

### Assortment Pricing: 1/4-Watt Carbon Film Resistors (±5%)

Assortments may not be combined for quantity price breaks

Part No.	Cross Ref. No.	Values Included	Description (see chart below)	Pricing		
				1	5	50
10720	ASST8-R	—	5 ea. 70 values (350 pcs.)  (every other value from 10Ω - 5.6 MΩ)	\$10.95	\$9.95	\$8.95
103166	ASST30-R	● X	10 ea. 24 values marked ● and 50 ea. 6 values marked X (540 pcs.)	14.49	12.95	11.95
10664	ASST27-R	▲	100 ea. 27 values marked (2,700 pcs.)	29.95	26.95	24.95
81832	N/A	—	1/4-watt resistor cabinet kit 30 values, see pg 38 (540 pcs.)	27.95	25.95	23.95



\*Web Code: RCN

### Single Value Resistor Pricing: 1/4-Watt Carbon Film Resistors (±5%)

To order: Use part number adjacent to ohms in chart below.

Values may not be combined for quantity price breaks.

#### Pricing per Resistor (Please order in increments of 100)

Specify Part No. & Resistor Value	100	1000	5000	25000
(see Standard Resistor Values Chart below)	\$.03	\$.02	\$.011	\$.009

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
690216	<span>℞</span> 2.2	690427	<span>℞</span> 15	690620 <span>▲</span> <span>×</span>	<span>℞</span> 100	690822 <span>▲</span> <span>●</span>	<span>℞</span> 680	691024 <span>▲</span> <span>×</span>	<span>℞</span> 4.7k	691227 <span>▲</span> <span>●</span>	<span>℞</span> 33k	691420	<span>℞</span> 220k	691622	<span>℞</span> 1.5M
690224	<span>℞</span> 2.4	690435	<span>℞</span> 16	690638	<span>℞</span> 110	690831	750	691032 <span>▲</span> <span>●</span>	<span>℞</span> 5.1k	691235	<span>℞</span> 36k	691438	<span>℞</span> 240k	691631	<span>℞</span> 1.6M
690232	<span>℞</span> 2.7	690443	<span>℞</span> 18	690646	<span>℞</span> 120	690849	<span>℞</span> 820	691041 <span>▲</span> <span>●</span>	<span>℞</span> 5.6k	691243	<span>℞</span> 39k	691446	<span>℞</span> 270k	691892	<span>℞</span> 1.8M
690241	<span>℞</span> 3.0	690451	<span>℞</span> 20	690654	<span>℞</span> 130	690857	910	691059	<span>℞</span> 6.2k	691251	<span>℞</span> 43k	691454	<span>℞</span> 300k	691649	<span>℞</span> 2.0M
690259	<span>℞</span> 3.3	690460	<span>℞</span> 22	690662 <span>▲</span> <span>●</span>	<span>℞</span> 150	690865 <span>▲</span> <span>×</span>	<span>℞</span> 1.0k	691067	<span>℞</span> 6.8k	691260 <span>▲</span> <span>●</span>	<span>℞</span> 47k	691462	<span>℞</span> 330k	691657	<span>℞</span> 2.2M
690267	<span>℞</span> 3.6	690478	<span>℞</span> 24	690671	<span>℞</span> 160	690873	<span>℞</span> 1.1k	691075	<span>℞</span> 7.5k	691278	<span>℞</span> 51k	691471	<span>℞</span> 360k	691665	<span>℞</span> 2.4M
690275	<span>℞</span> 3.9	690486	<span>℞</span> 27	690689	<span>℞</span> 180	690881 <span>●</span>	<span>℞</span> 1.2k	691083	<span>℞</span> 8.2k	691286	<span>℞</span> 56k	691489	<span>℞</span> 390k	691673	<span>℞</span> 2.7M
690283	<span>℞</span> 4.3	690494	<span>℞</span> 30	690697	<span>℞</span> 200	690890	<span>℞</span> 1.3k	691091	<span>℞</span> 9.1k	691294	<span>℞</span> 62k	691497	<span>℞</span> 430k	691681	<span>℞</span> 3.0M
690291	<span>℞</span> 4.7	690507	<span>℞</span> 33	690700 <span>▲</span> <span>×</span>	<span>℞</span> 220	690902 <span>▲</span> <span>●</span>	<span>℞</span> 1.5k	691104 <span>▲</span> <span>×</span>	<span>℞</span> 10k	691307	<span>℞</span> 68k	691500 <span>▲</span> <span>●</span>	<span>℞</span> 470k	691690	<span>℞</span> 3.3M
690304	<span>℞</span> 5.1	690515	<span>℞</span> 36	690718	<span>℞</span> 240	690911	<span>℞</span> 1.6k	691112	<span>℞</span> 11k	691315	<span>℞</span> 75k	691518	<span>℞</span> 510k	691702	<span>℞</span> 3.6M
690312	<span>℞</span> 5.6	690523	<span>℞</span> 39	690726 <span>▲</span> <span>●</span>	<span>℞</span> 270	690929	<span>℞</span> 1.8k	691121	<span>℞</span> 12k	691323	<span>℞</span> 82k	691526	<span>℞</span> 560k	691711	<span>℞</span> 3.9M
690321	<span>℞</span> 6.2	690531	<span>℞</span> 43	690734	<span>℞</span> 300	690937 <span>▲</span> <span>●</span>	<span>℞</span> 2.0k	691139	<span>℞</span> 13k	691331	<span>℞</span> 91k	691534	<span>℞</span> 620k	691737	<span>℞</span> 4.7M
690339	<span>℞</span> 6.8	690540 <span>▲</span> <span>●</span>	<span>℞</span> 47	690742 <span>▲</span> <span>●</span>	<span>℞</span> 330	690945 <span>▲</span> <span>●</span>	<span>℞</span> 2.2k	691147 <span>▲</span> <span>●</span>	<span>℞</span> 15k	691340 <span>▲</span> <span>×</span>	<span>℞</span> 100k	691542	<span>℞</span> 680k	691745	<span>℞</span> 5.1M
690347	<span>℞</span> 7.5	690558	<span>℞</span> 51	690751	<span>℞</span> 360	690953	<span>℞</span> 2.4k	691155	<span>℞</span> 16k	691358	<span>℞</span> 110k	691551	<span>℞</span> 750k	691753	<span>℞</span> 5.6M
690363	<span>℞</span> 8.2	690566	<span>℞</span> 56	690769 <span>●</span>	<span>℞</span> 390	690961 <span>▲</span> <span>●</span>	<span>℞</span> 2.7k	691163	<span>℞</span> 18k	691366	<span>℞</span> 120k	691569	<span>℞</span> 820k	691761	<span>℞</span> 6.2M
690371	<span>℞</span> 9.1	690574	<span>℞</span> 62	690777	<span>℞</span> 430	690970	<span>℞</span> 3.0k	691171 <span>●</span>	<span>℞</span> 20k	691374	<span>℞</span> 130k	691577	<span>℞</span> 910k	691770	<span>℞</span> 6.8M
690380 <span>▲</span> <span>●</span>	<span>℞</span> 10	690582	<span>℞</span> 68	690785 <span>▲</span> <span>●</span>	<span>℞</span> 470	690988 <span>▲</span> <span>●</span>	<span>℞</span> 3.3k	691180 <span>▲</span> <span>●</span>	<span>℞</span> 22k	691382	<span>℞</span> 150k	691585 <span>▲</span> <span>●</span>	<span>℞</span> 1.0M	691788	<span>℞</span> 7.5M
690398	<span>℞</span> 11	690591	<span>℞</span> 75	690793	<span>℞</span> 510	690996	<span>℞</span> 3.6k	691198	<span>℞</span> 24k	691391	<span>℞</span> 160k	691593	<span>℞</span> 1.1M	691796	<span>℞</span> 8.2M
690401	<span>℞</span> 12	690603	<span>℞</span> 82	690806	<span>℞</span> 560	691008	<span>℞</span> 3.9k	691201	<span>℞</span> 27k	691403	<span>℞</span> 180k	691606	<span>℞</span> 1.2M	691809	<span>℞</span> 9.1M
690419	<span>℞</span> 13	690611	<span>℞</span> 91	690814	<span>℞</span> 620	691016	<span>℞</span> 4.3k	691219	<span>℞</span> 30k	691411	<span>℞</span> 200k	691614	<span>℞</span> 1.3M	691817 <span>▲</span> <span>●</span>	<span>℞</span> 10M

## 1/2-Watt Carbon Film Resistors (±5%)



\*Web Code: SCH

### Assortment Pricing: 1/2-Watt Carbon Film Resistors (±5%)

Assortments may not be combined for quantity price breaks

Part No.	Cross Ref. No.	Values Included	Description (see chart below)	1	5
107853	ASST1230R	X #	10 ea. of 24 values marked by X and 50 ea. of 6 values marked by # (540 pcs.)	\$17.95	\$15.95
107845	ASST1227R	✓	100 ea. of 27 values marked by ✓ (2,700 pcs.)	39.95	36.95
107837	ASST1270R	N/A	5 ea. of 70 values (every other value from 10Ω - 5.6 MΩ) (350 pcs.) (see chart below)	12.95	11.95
107879	CAB12R	N/A	1/2-watt resistor component cabinet kit – 30 values (540 pcs.), see page 38	29.95	26.95

### Single Resistor Value Pricing: 1/2-Watt Carbon Film Resistors (±5%)

To order: Use part number adjacent to ohms in chart below.

Values may not be combined for quantity price breaks.

#### Pricing Per Resistor (Please order in increments of 100)

Specify Part No. & Resistor Value	100	1000	5000	25000
(see Standard Resistor Values Chart below)	\$.04	\$.03	\$.02	\$.014

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
659577	<span>℞</span> 1.0	661141	<span>℞</span> 33	661335	<span>℞</span> 200	661482	<span>℞</span> 820	661642	<span>℞</span> 3.6k	661837 ✓X	<span>℞</span> 22k	662098	<span>℞</span> 270k
659614	<span>℞</span> 1.5	661167	<span>℞</span> 39	661343 ✓#	<span>℞</span> 220	661503 ✓#	<span>℞</span> 1.0k	661651	<span>℞</span> 3.9k	661845	<span>℞</span> 24k	662119	<span>℞</span> 330k
659657	<span>℞</span> 2.2	661183 ✓X	<span>℞</span> 47	661351	<span>℞</span> 240	661520	<span>℞</span> 1.2k	661677 ✓#	<span>℞</span> 4.7k	661853 X	<span>℞</span> 27k	662135	<span>℞</span> 390k
659673	<span>℞</span> 2.7	661191	<span>℞</span> 51	661360 ✓X	<span>℞</span> 270	661538	<span>℞</span> 1.3k	661685 ✓X	<span>℞</span> 5.1k	661870 ✓X	<span>℞</span> 33k	662151 ✓X	<span>℞</span> 470k
659737	<span>℞</span> 4.7	661204	<span>℞</span> 56	661378	<span>℞</span> 300	661546 ✓X	<span>℞</span> 1.5k	661693 ✓X	<span>℞</span> 5.6k	661896	<span>℞</span> 39k	662215	<span>℞</span> 820k
659809	<span>℞</span> 9.1	661221	<span>℞</span> 68	661386 ✓X	<span>℞</span> 330	661554	<span>℞</span> 1.6k	661714 X	<span>℞</span> 6.8k	661917 ✓X	<span>℞</span> 47k	662231 ✓X	<span>℞</span> 1.0M
659817 ✓X	<span>℞</span> 10	661239	<span>℞</span> 75	661407 X	<span>℞</span> 390	661562	<span>℞</span> 1.8k	661731	<span>℞</span> 8.2k	661933	<span>℞</span> 56k	662240	<span>℞</span> 1.1M
659833	<span>℞</span> 12	661247	<span>℞</span> 82	661423 ✓X	<span>℞</span> 470	661571 ✓X	<span>℞</span> 2.0k	661757 ✓#	<span>℞</span> 10k	661950	<span>℞</span> 68k	662291	<span>℞</span> 1.8M
659850	<span>℞</span> 15	661263 ✓#	<span>℞</span> 100	661431	<span>℞</span> 510	661589 ✓X	<span>℞</span> 2.2k	661773	<span>℞</span> 12k	661976	<span>℞</span> 82k	662311	<span>℞</span> 2.2M
659884	<span>℞</span> 20	661280	<span>℞</span> 120	661440	<span>℞</span> 560	661600 ✓X	<span>℞</span> 2.7k	661790 ✓X	<span>℞</span> 15k	661992 ✓#	<span>℞</span> 100k	662397	<span>℞</span> 4.7M
659892	<span>℞</span> 22	661301 ✓X	<span>℞</span> 150	661466 ✓X	<span>℞</span> 680	661618	<span>℞</span> 3.0k	661811	<span>℞</span> 18k	662039	<span>℞</span> 150k	662477 ✓X	<span>℞</span> 10M
661124	<span>℞</span> 27	661327	<span>℞</span> 180	661474	<span>℞</span> 750	661634 ✓X	<span>℞</span> 3.3k	661829	<span>℞</span> 20k	662071	<span>℞</span> 220k		



\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Resistors & Potentiometers

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE



## 5-Watt Wirewound Resistors (5%)

\*Web Code: TCH

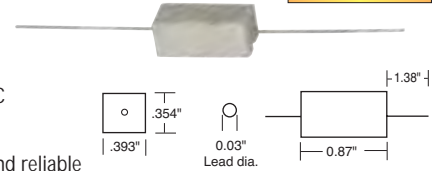
### Single Value Resistor Pricing: 5-Watt Wirewound Resistors (±5%)

To order: Use part no. adjacent to Ω in chart below. Values may not be combined for quantity price breaks.

Specify Part No. & Resistor Value (see Standard Resistor Values Chart below)

	1	10	100	500
Pricing	\$.45	\$.39	\$.35	\$.29
Orange Pricing	.29	.25	.19	.17

- Temp range: -55°C to +155°C
- Moisture resistant
- High temperature stability
- Exceptionally small, sturdy and reliable



Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
659956	0.10	660130	1.0	660295	5.0	660480	27	660851	820	661010	4.7k
659964	0.15	660201	2.0	660375	10	660551	50	660877	1.0k	661036	10k
660050	0.5	660279	4.0	660447	20	660623	100				

## 0805 (1/8W) Chip Resistor Assortment (±5%)

144 Values, 50 pcs. each

- 7,200 pieces total
- Max. overload volt.: 200V
- Case size (2 cases): 10.5"L x 6.7"W x 1.7"T
- Operating temp.: 70°C
- Weight: 1.9 lbs.
- Size (mm): 2.0L x 1.25W x 0.5Thick

Includes: Case with labels

Part No.	Product No.	1	5	25
172806	16-500.....	\$74.95	\$64.95	\$54.95

Resistance Value Chart:

1.2	10	75	430	2.0k	10k	51k	270k	2.2M
1.6	16	85	470	2.2k	11k	56k	300k	2.4M
2.2	18	91	510	2.4k	12k	62k	360k	2.7M
2.4	20	110	560	2.7k	13k	68k	390k	3.0M
2.7	22	120	620	3.0k	15k	75k	430k	3.3M
3.0	24	130	680	3.3k	16k	82k	470k	3.6M
3.3	27	150	750	3.6k	18k	91k	510k	3.9M
4.3	30	160	820	3.9k	20k	100k	560k	4.3M
4.7	33	180	910	4.3k	22k	110k	620k	4.7M
5.1	39	200	1.0k	4.7k	24k	120k	750k	5.1M
5.6	43	220	1.1k	5.6k	27k	150k	820k	5.6M
6.2	47	240	1.2k	6.2k	30k	160k	910k	6.2M
6.8	51	270	1.3k	6.8k	33k	180k	1.0M	7.5M
7.5	56	300	1.5k	7.5k	36k	200k	1.6M	8.2M
8.2	62	360	1.6k	8.2k	39k	220k	1.8M	9.1M
9.1	68	390	1.8k	9.1k	43k	240k	2.0M	10M

## 1206 (1/4W) Chip Resistor Assortment (±1%)

56 Values, 200 pcs. each; 11,200 pcs. Total

- Maximum working voltage: 200V
- Operating temp.: 70°C
- Temp. coefficient: ±100 ppm/°C
- Resistor dimensions (mm): 3.10L x 1.5 W x 0.55H
- Packaged 200 pc. strip



Value Chart (Ohms)

10	121	1.5k	20k	243k
12.1	150	2.4k	24.3k	301k
15	200	2.43k	30.1k	392k
20	243	3.01k	39.2k	499k
24.3	301	3.92k	49.9k	619k
30.1	392	4.99k	61.9k	750k
39.2	499	6.19k	75k	909k
49.9	619	7.5k	90.9k	1M
61.9	750	9.09k	100k	
75	909	10k	121k	
90.9	1k	12.1k	150k	
100	1.21k	15k	200k	

Part No.	Cross Ref. No.	1	5	25
156882	SMR1206SB.....	\$94.95	\$84.95	\$76.95



## 1/4W 1% Metal Film Resistors

- Wire leads
- Color bands

Qty.	100	1000	5000	10000
MF-25	\$.009	\$.008	\$.007	\$.006

MFR Series - 59 Values

\*Web Code: MFR

## 1/16W 5% Chip Resistor Arrays

- Op. temp.: +55°C to 155°C
- 4-chip resistors

Qty.	100	1000	5000	10000
TC-164	\$.009	\$.008	\$.007	\$.006
YC-164	.009	.008	.007	.006

TC164 Series - 2 Values

\*Web Code: ZAH

YC164 Series - 4 Values

\*Web Code: ZAG

## RC Series

### 1% SMD Thick Film Resistors

- Op. temp.: +55°C to 125°C
- General purpose

Qty.	100	1000	5000	10000
0603	\$.009	\$.008	\$.007	\$.006
0805	.009	.008	.007	.006
1206	.009	.008	.007	.006
1210	.009	.008	.007	.006

\*SMD Thick Film 1% — Enter Web Code SMF

0603 - 15 Values

0805 - 45 Values

1206 - 25 Values

1210 - 1 Value

## RC Series

### 5% SMD Thick Film Resistors

- Op. temp.: +55°C to 125°C
- General purpose

Qty.	100	1000	5000	10000
0603	\$.009	\$.008	\$.007	\$.006
0805	.009	.008	.007	.006
1206	.009	.008	.007	.006

\*SMD Thick Film 5% — Enter Web Code THF

0603 - 31 Values

0805 - 62 Values

1206 - 47 Values

## Series 766 SMT Chip Resistor Array

- ±2% or 0.5Ω whichever is greater
- Dielectric strength: 100VAC
- Max. operating volt.: 50V • Bussed
- Power: 1W @ 70°C

Part No.	Product No.	1	10	100
1179284	745C101103JP.....	\$.59	\$.55	\$.45

## 24mm Audio Taper 1/4-Watt (±20%)

- Body diameter: 0.945"
- Shaft diameter: 0.250"
- Terminal type: solder lugs
- Rotational angle: 300° (±5°)
- Insulation resistance: >100MΩ @ 500VDC
- Max. voltage: 250V

\*Web Code: MBQ

255426



Qty.	1	10	100	500
Pricing	\$1.65	\$1.49	\$1.35	\$1.19

Part No.	Manufacturer Part No.	Shaft Length	Ohms
255426	RV24AF-10-15R1-A14.....	0.335"	10k
255434	RV24AF-10-15R1-A54.....	0.335"	50k
255442	RV24AF-10-15R1-A15.....	0.335"	100k
255451	RV24AF-10-15R1-A55.....	0.335"	500k
255469	RV24AF-10-15R1-A16.....	0.335"	1M



## 1/2-Watt Linear Taper (±10%)

- Temperature range: -55°C to +125°C
- Non-rotational key, non-slotted shaft end
- Maximum panel thickness: 0.1875"
- Mounting hole: 0.3125"
- Shaft dia.: 0.25" • Shaft length: 0.355"

Includes: Mounting hardware

Qty.	1	10	100	500
Pricing	\$1.09	\$9.25	\$7.95	\$6.95

Part No.	Cross Ref.	Ohms	Part No.	Cross Ref.	Ohms
29050	P1K.....	1k	29103	P100K.....	100k
29197	P5K.....	5k	29066	P1MEG.....	1M
29082	P10K.....	10k			

\*Linear Taper Potentiometers — Enter Web Code JAE

Send feedback to [Management@Jameco.com](mailto:Management@Jameco.com)

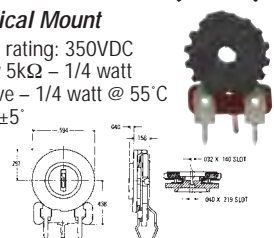
## 1/4-Watt Miniature Linear (±20%)

### X201 (19/32") Vertical Mount

- 15mm thick • Volt. rating: 350VDC
- Power rating: below 5kΩ - 1/4 watt
- @ 40°C; 5kΩ & above - 1/4 watt @ 55°C
- Total rotation: 260° ±5°

Cross Ref. Chart

Equivalent to:
CTS X201R
Bourns 3355X
PIHER PT15



Qty.	1	10	100	500
Pricing	\$.55	\$.45	\$.39	\$.35

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
94693	X201R1K.....	1k	94714	X201R10K.....	10k
35503	X201R252B.....	2.5k	94722	X201R50K.....	50k
94706	X201R5K.....	5k	94731	X201R100K.....	100k

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

## 1/2-Watt 24mm Linear Taper with SPST Switch ( $\pm 20\%$ )

- Shaft diameter: 0.25"
- Maximum voltage: 500V
- Terminal type: solder lugs
- Switch rating: 125VAC, 1A
- Rotational angle: 300° ( $\pm 5^\circ$ )



Qty.	1	10	100	500
Pricing	\$2.19	\$1.95	\$1.75	\$1.49

Part No.	Manufacturer Part No.	Shaft Length	Ohms
263768	RV24A01F-10-15R1-B13	0.335"	1k
263792	RV24A01F-10-15R1-B14	0.335"	10k
263813	RV24A01F-10-15R1-B54	0.335"	50k
263822	RV24A01F-10-15R1-B100K	0.335"	100k
263848	RV24A01F-10-15R1-B55	0.335"	500k

## 2 & 5-Watt Linear Taper Wirewound ( $\pm 20\%$ )

- Temp. range: -10°C to +70°C
- Non-rotational key

Includes: Mounting hardware  
2-Watt ( $\pm 20\%$ ) • Length: 0.825"

JAMECO  
EXCLUSIVE  
ValuePro

123960



Part No.	Cross Ref. No.	Ohms	1	10	100	500
123960	PT1K	1k	\$3.95	\$3.49	\$3.09	\$2.69

### 5-Watt ( $\pm 20\%$ )

- Shaft length/diameter: 0.67"/0.23" (6mm)
- Mounting hole: 0.32"
- Maximum panel thickness: 0.1"



Part No.	Cross Ref. No.	Ohms	1	10	100	500
140514	PW5B100	100	\$2.95	\$2.75	\$2.49	\$2.25

## Bourns® 2-Watt 10-Turn Wirewound ( $\pm 5\%$ )

\* Web Code: JBE

- Insulation resis.: (500VDC) 1000M $\Omega$  min.
- Absolute min. resis.: 1 $\Omega$  or 0.1% max.
- Operating temp. range: +1°C to +125°C

3540S-1 Series: 2W @ 70°C; metal  
3590S-1 Series: 2W @ 40°C; plastic  
3540S-1 Series: 2W @ 40°C; metal

183548



Part No.	Mfr. Part No.	Ohms	1	10	50
183548	3540S-1-502L	5k	\$23.95	\$21.95	\$19.95
855818	3590S-2-502L	5k	12.95	11.95	10.95
183521	3540S-1-103	10k	19.95	18.95	17.95
771121	3590S-1-103L	10k	12.95	11.95	10.95
771155	3590S-2-103L	10k	12.95	11.95	10.95
771139	3590S-1-104L	100k	16.95	15.49	13.95

## 2-Watt 10-Turn Linear Taper ( $\pm 5\%$ )



Part No.	Cross Ref. No.	Ohms	1	10	50
2111880	3540S-1-502L	5k	\$9.95	\$9.49	\$8.95

## Series 308 Potentiometers 1/2" Square, 0.5 Watt

- Single conductive plastic, 0.5W
- 0.125" Dia. x 0.181" L
- Smooth shaft with slotted end
- Effective rotation: 265° ( $\pm 5^\circ$ )
- Electrical rotation: 295° ( $\pm 5^\circ$ )
- Linearity:  $\pm 5\%$  independent

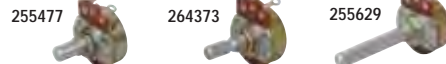


Part No.	Mfr. Part No.	Resistance	1	10	50
2125405	308N10K	10k $\Omega$	\$4.95	\$4.49	\$3.95



## 1/2-Watt 24mm Linear Taper ( $\pm 20\%$ )

- Rotational angle: 300° ( $\pm 5^\circ$ )
- Max. volt.: 500V
- Shaft Dia.: 0.25"
- Withstanding voltage for 1 minute: 500VAC



Qty.	1	10	100	500
Pricing	\$1.65	\$1.49	\$1.35	\$1.19

Part No.	Manufacturer Part No.	Shaft Length (L)	Ohms
255477	RV24AF-10-15R1-B52	0.335"	500
255485	RV24AF-10-15R1-B13	0.335"	1k
255493	RV24AF-10-15R1-B23	0.335"	2k
255514	RV24AF-10-15R1-B53	0.335"	5k
255522	RV24AF-10-15R1-B14	0.335"	10k
255531	RV24AF-10-15R1-BF4	0.335"	25k
255549	RV24AF-10-15R1-B54	0.335"	50k
255557	RV24AF-10-15R1-B15	0.335"	100k
255565	RV24AF-10-15R1-BF5	0.335"	250k



## 16mm Linear Taper Potentiometers ( $\pm 20\%$ )

- Rated volt.: 200V
- Body diameter: 0.63"
- Shaft diameter: 0.250"
- Insulation resis.: >100M $\Omega$  @ 500VDC



### 1/8-Watt ( $\pm 20\%$ )

- Rotational angle: 300° ( $\pm 5^\circ$ )
- Rotation life: 15k cycles

Qty.	1	10	100	500
Pricing	\$1.39	\$1.19	\$1.05	\$0.89

Part No.	Manufacturer Part No.	Shaft Length	Ohms
286193	RV16AF-10-20R1-B53	0.531"	5k
286206	RV16AF-10-20R1-B14	0.531"	10k
286214	RV16AF-10-20R1-B54	0.531"	50k
286222	RV16AF-10-20R1-B55	0.531"	500k

### 1/8-Watt with SPST Switch ( $\pm 20\%$ )

- Withstanding voltage: 500VAC for 1 min.
- Switch rating: 12VDC/1A

Qty.	1	10	100	500
Pricing	\$2.15	\$1.95	\$1.75	\$1.59

Part No.	Manufacturer Part No.	Shaft Length	Ohms
286598	RV16A03F-10-15R1-B1K	0.335"	1k
286620	RV16A03F-10-15R1-B10K	0.335"	10k

### 1/5-Watt with SPST Switch ( $\pm 20\%$ )

- Rotational angle: 270° ( $\pm 5^\circ$ )
- Rotation life: 100k cycles

Qty.	1	10	100	500
Pricing	\$1.95	\$1.75	\$1.59	\$1.45

Part No.	Manufacturer Part No.	Shaft Length	Ohms
286767	RV16C-40-16F1-B5K	0.374"	5k

## Bourns® 12mm Incremental Encoder

- Contact rating: 1mA @ 5VDC
- RPM (operating): 100 max.
- Output: 2-bit gray code
- Closed circuit resistance: 3 $\Omega$  max.
- Switch type: contact push ON momentary SPST
- PC horizontal/rear facing, 24 detents, 25mm shaft length, insulated shaft, 24 pulses per 360° rotation

NEW  
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Part No.	Product No.	1	10	100
776386	PEC12-4225F-N0024	\$1.19	\$1.09	\$0.99

Part No.	Manufacturer Part No.	Shaft Length (L)	Ohms
255573	RV24AF-10-15R1-B55	0.335"	500k
255582	RV24AF-10-15R1-B16	0.335"	1M
255600	RV24AF-10-15R1-B26	0.335"	2M
264373	RV24AF-10-20K-B52	0.531"	500
264382	RV24AF-10-20K-B13	0.531"	1k
264400	RV24AF-10-20K-B23	0.531"	2k
264402	RV24AF-10-20K-B53	0.531"	5k
264411	RV24AF-10-20K-B14	0.531"	10k
264429	RV24AF-10-20K-B54	0.531"	50k
264437	RV24AF-10-20K-B15	0.531"	100k
264445	RV24AF-10-20K-BF5	0.531"	250k
264462	RV24AF-10-20K-B16	0.531"	1M
255629	RV24AF-10-40R1-B13	1.32"	1k
255662	RV24AF-10-40R1-B14	1.32"	10k
255688	RV24AF-10-40R1-B54	1.32"	50k
255696	RV24AF-10-40R1-B15	1.32"	100k

### 1/5-Watt with DPDT Switch ( $\pm 20\%$ )

- Rotation angle: 300° ( $\pm 5^\circ$ )
- Rotation life: 15k cycles
- Terminal type: solder lugs (except P/N 286758: PC terminal)

Qty.	1	10	100
Pricing	\$1.95	\$1.75	\$1.59

Part No.	Manufacturer Part No.	Shaft Length	Ohms
286678	RV16B-10-15R1-B5K	0.335"	5k
286694	RV16B-10-15R1-B50K	0.335"	50k
286758	RV16B-20-15R1-B100K	0.335"	100k

### 1/5-Watt ( $\pm 20\%$ )

- Shaft diameter: 0.25" • Body diameter: 0.63"

Qty.	1	10	100	500
Pricing	\$1.59	\$1.35	\$1.15	\$0.99
Orange Pricing	.99	.89	.79	.69

Part No.	Manufacturer Part No.	Shaft Length	Ohms
286249	RV16AF-10-15R1-B13	0.335"	1k
286257	RV16AF-10-15R1-B2K	0.335"	2k
286265	RV16AF-10-15R1-B53	0.335"	5k
286273	RV16AF-10-15R1-B14	0.335"	10k
163563	PMD401K	0.605"	10k
286282	RV16AF-10-15R1-BF4	0.335"	25k
286302	RV16AF-10-15R1-B15	0.335"	100k
286337	RV16AF-10-15R1-B16	0.335"	1M

\* Linear Taper Potentiometers — Enter Web Code JAE

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# Trimming Cermet Potentiometers

## 1/2-Watt, 1/4" Round, Cermet Potentiometers (±10%)

3329P Series Value Equivalents Cross Ref. Chart

- Sealed to withstand wave soldering and immersion cleaning process
- Terminals: solderable pins
- TO-5 grid
- Top adjustment 95484
- Extended temp. range: -55°C to +150°C

\*Web Code: JDG

Equivalent to:	
Beckman	82M
Bourns	3329P
Mecopcal	8050
MEC	471
Murata	3321P
Spectrol	62-3
VRN	171
Weston	567

Qty.	1	10	100	500
Pricing	\$1.29	\$1.15	\$0.99	\$0.79
Orange Pricing	.59	.55	.49	.45

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
254465	3329P-101	100	95484	3329P-104	100k
254473	3329P-201	200	254570	3329P-204	200k
95441	3329P-102	1k	254597	3329P-105	1M
96719	3329P-103	10k			

## 1/2-Watt, 3/8" Square, Multi-Turn Trim Top Adj. (±10%) Potentiometers

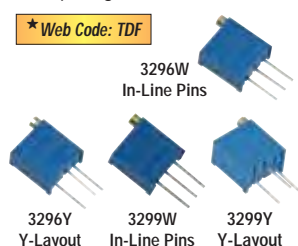
Bourns 3296 and 3299 Series Equivalents

- Resistance tolerance: ±10%
- Insulation resistance: (500VDC) 1,000MΩ min.
- Absolute min. resistance: 1% or 2Ω max.
- Contact resistance: 1% or 3Ω
- Power rating: 0.5W @ 70°C (300V max.)
- Temp range: -55°C to 150°C

\*Web Code: TDF

Cross Ref. Chart

Equivalent to:	
Allen Bradley	E2B
Beckman	72PR
Bourns	3386P
Mecopcal	8038
Murata	3104P
Spectrol	63P
VRN	780-12P
Weston	840P
Vishay	76



Pricing	3296W	3296Y	3299W/Y
1 pc.	\$1.95	\$1.49	\$1.49
10 pcs.	1.75	1.25	1.35
100 pcs.	1.49	1.19	1.19
500 pcs.	1.35	.95	.95

Value (Ω)	3296W Part No.	3296Y Part No.	3299W Part No.	3299Y Part No.
10Ω	—	—	241058	240872
20Ω	—	—	241066	240881
50Ω	—	240717	—	240531
100Ω	853530	240725	241083	—
200Ω	853636	240734	—	—
500Ω	853759	240742	241104	240928
1kΩ	853556	240750	241111	191396
2kΩ	853652	240769	241121	240944
5kΩ	853775	240777	241139	191426
10kΩ	853572	240427	241146	240602
20kΩ	853679	240435	238633	—
25kΩ	—	—	241162	240629
50kΩ	853791	240813	—	240637
100kΩ	853599	240470	241189	191409
200kΩ	853695	—	—	—
250kΩ	—	240830	241197	241016
500kΩ	—	—	—	—
1MΩ	853610	240856	241219	—
2MΩ	—	240864	241227	—

## 1/4-Watt, 1/4" Square Trim Top Adj. Potentiometers (±10%)

Bourns 3266W Series Value Equivalents

- 12 turns nominal
- Contact resis. variation: 3% or 3Ω max. (whichever is greater)
- Absolute min. resistance: 1% or 2Ω max. (whichever is greater)
- Power rating: 0.25W @ 70°C (300V max.)
- Insulation resistance: (500VDC) 1,000MΩ min.

\*Web Code: TDF

Qty.	1	10	100	500
Pricing	\$1.95	\$1.75	\$1.49	\$1.25
Orange Pricing	1.49	1.25	1.09	.99

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
254609	3266W-500	50	254677	3266W-103	10k
254617	3266W-101	100	254692	3266W-253	25k
254626	3266W-201	200	254706	3266W-503	50k
254633	3266W-501	500	254714	3266W-104	100k
254642	3266W-102	1k	254722	3266W-204	200k
254651	3266W-202	2k	254730	3266W-504	500k
254669	3266W-502	5k	254749	3266W-105	1M

## 1/2-Watt, 1/4" Square, Single-Turn Cermet Potentiometers (±10%)

- Linear taper
- Insulation resistance: 500VDC 1000MΩ min.
- Contact res.: 1% or 3Ω
- Rotation life: 200 cycles
- Absolute min. res.: 1% or 2Ω
- Terminals: solderable pins
- Top adjustment: 240° nominal
- Wipe positioning: 50% nominal

\*Web Code: JDG

Cross Ref. Chart

Equivalent to:	
Bourns	3362P
Copal	CT6
Copal	CT-6P
Vishay	76

Qty.	1	10	100	500
Pricing	\$0.95	\$0.75	\$0.65	\$0.55
Orange Pricing	.55	.49	.45	.39

3362H Series (Top Adjustment Sealed)

Part No.	Cross Ref. No.	Ohms
770371	3362H-103	10k

3362P Series (Top Adjustment)

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
191644	3362P-200	20	182837	3362P-103	10k
189341	3362P-500	50	254002	3362P-203	20k
253972	3362P-201	200	254028	3362P-503	50k
182810	3362P-501	500	254036	3362P-104	100k
253982	3362P-102	1k	254044	3362P-504	500k
182829	3362P-502	5k	254115	3362P-105	1M

3362W Series (Side Adjustment)

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
254175	3362W-102	1k	254204	3362W-103	10k

## 1/2-Watt, 3/8" Square, Single-Turn Trimmer Potentiometers w/ Shaft

- 3 positions
- Shaft length: 0.32"
- 0.1" lead spacing

\*Web Code: TDF

Part No.	Mfr. Part No.	1	10	100
2118803	18STS1K	\$1.49	\$1.35	\$1.09
2118791	18STS10K	1.49	1.35	1.09

## Pocket Trim Potentiometer Adjustment Tool

- Glass-filled body
- Stainless steel blade

Part No.	Description	Size	1	10	100
153315	Trimmer tool	5.2"L	\$1.95	\$1.75	\$1.49

## 3/4-Watt, 3/4" Rectangular, 15-Turn Cermet Side Adjustment Potentiometers (±10%)

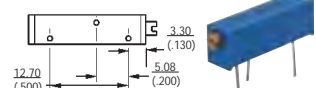
3006P Series Value Equivalents

\*Web Code: JDG

- Low PC board profile
- Temp. range: -55°C to 125°C
- Absolute min. resis.: 1% or 2Ω
- Contact resis.: 1% or 1Ω max.
- Power rating: 0.75W @ 70°C (400V max.)

Cross Ref. Chart

Equivalent to:	
Allen Bradley	94P
Beckman	89PR
Bourns	3006P
Litton	6034Y
Mecopcal	8034
Murata	2101P
Spectrol	43P
VRN	961-20
Weston	830P



Qty.	1	10	100	500
Pricing	\$1.49	\$1.29	\$1.09	\$0.95
Orange Pricing	.75	.69	.65	.59

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
241235	3006P-101	100	41873	3006P-203	20k
241242	3006P-201	200	241307	3006P-203	20k
41937	3006P-501	500	41911	3006P-503	50k
241252	3006P-501	500	241323	3006P-503	50k
241269	3006P-102	1k	41849	3006P-104	100k
241270	3006P-102	1k	241332	3006P-104	100k
41865	3006P-202	2k	63001	3006P-204	200k
241278	3006P-202	2k	241350	3006P-204	200k
41890	3006P-502	5k	41953	3006P-504	500k
241286	3006P-502	5k	41806	3006P-105	1M
41822	3006P-103	10k	241374	3006P-105	1M
241294	3006P-103	10k			

## 1/2-Watt, 3/8" Square, Single-Turn Trimmer Potentiometers

Bourns 3386 Series Equivalents

\*Web Code: TDF

- Resis. tolerance: ±10%
- Insulation resistance: (500VDC) 1,000MΩ min.
- Absolute minimum resistance: 2Ω max.
- Contact resistance variation: 2% or 3Ω
- Temperature range: -55°C to 125°C

3386W Side Adj. (In-Line Pins)



Price	3386P	3386W	3386X
1 pc.	\$1.25	\$0.55	\$0.95
10 pcs.	1.09	.49	.85
100 pcs.	.95	.45	.75
500 pcs.	.79	.39	.69

Value (Ω)	3386P - P/N	3386W - P/N	3386X - P/N
50Ω	—	241381	—
100Ω	254297	—	—
200Ω	254300	—	—
500Ω	43123	—	264639
1kΩ	42964	241429	—
2kΩ	43043	—	—
5kΩ	43078	241445	264664
10kΩ	43001	241454	—
20kΩ	43051	—	264680
25kΩ	254377	241470	264698
50kΩ	43107	—	264701
100kΩ	43027	—	264719
200kΩ	254407	241509	—
250kΩ	254414	241517	264735
300kΩ	43060	—	—
500kΩ	63212	—	—
1MΩ	42981	241533	—
2MΩ	105216	—	—



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## Instrumentation Knobs (1/4" Shaft Diameters)

JAMECO  
EXCLUSIVE

★ Web Code: EBD



Part No.	Product No.	Body	Pointer	H" x Dia."	Fig.	1	10	100
265009	JK-902B	Black	White	.60 x .95	1	\$.95	\$.85	\$.75
264998	JK-902A	Black	White	.69 x 1.31	1	.95	.79	.69
264990	JK-901D	Black/alum	White	.47 x .78	2	.89	.75	.65
264955	JK-901C	Black/alum	White	.61 x 1.06	2	.95	.85	.75
264946	JK-901B	Black/alum	White	.64 x 1.29	2	.95	.85	.75
264920	JK-901A	Black/alum	White	.79 x 1.77	2	1.49	1.35	1.09
264892	RN-113A	Black/alum	Numeric	.70 x 1.15	3	.95	.85	.75
264883	RN-112A	Black/alum	Numeric	.90 x 1.46	3	.95	.85	.75
264912	RN-114A	Black/alum	Numeric	.58 x 1.46	3	.95	.85	.75
102788	JK-903C	Black	White	.54 x 1.25	4	.69	.59	.49
104176	JK-902C	Black	White	.49 x .75	5	.95	.85	.75
202287	CP-Z1-M-S	Black/alum	White	.60 x .80	6	.79	.69	.59
136241	GKB-214	Black/alum	White	.52 x .54	7	1.09	.95	.79
138393	41108-1	Black/alum	White	.56 x .85	7	1.19	1.05	.95
265077	JK-905C	Black/blue	White	.58 x .57	8	.95	.79	.69
265084	JK-905D	Black/green	White	.58 x .57	8	.95	.79	.69
265051	JK-905A	Black/red	White	.58 x .57	8	.95	.79	.69
265069	JK-905B	Black/yellow	White	.58 x .57	8	.95	.79	.69
265033	JK-904C	Black/blue	White	.47 x .78	9	.75	.59	.49
265018	JK-904A	Black/red	White	.47 x .78	9	.75	.59	.49
265025	JK-904B	Black/yellow	White	.47 x .78	9	.75	.59	.49

Part No.	Product No.	Body	Pointer	H" x Dia."	Fig.	1	10	100
265041	JK-904D	Black/green	White	.47 x .78	9	\$.75	\$.59	\$.49
265122	JK-906D	Black	White	.58 x .61	10	.95	.79	.69
265261	CR-MS-5-T18*	Grey	Grey	.68 x .51	11	.49	.39	.35
265228	CR-MS-1-T18*	Grey	Red	.68 x .51	11	.49	.39	.35
2123910	CR-MS-1C6-T18	Black	Red	.68 x .51	11	.59	.55	.49
264823	CPBT-AA191A-1-SB6	Black/black	White	.79 x .77	11	.95	.85	.75
265244	CR-MS-3-T18*	Gray	Blue	.68 x .51	11	.49	.39	.35
265236	CR-MS-2-T18*	Gray	Yellow	.68 x .51	11	.75	.65	.59
290125	42008-1	Silver	Silver	.500 x .625	12	1.95	1.75	1.55
162481	K5-1/4S	Chrome	Silver	.500 x .560	13	.95	.79	.69
162499	K5-1/4B	Black	White	.500 x .560	14	1.49	1.35	1.19
138482	KN031	Aluminum	Black	.610 x .650	15	2.09	1.89	1.69
138502	KN032	Aluminum	Black	.870 x .750	15	2.59	2.35	2.09
138511	KN033	Aluminum	Black	1.18 x .870	15	2.69	2.39	2.15
265156	JK-907A-BL	Gray/blue	Blue	.76 x 1.27	16	.99	.95	.89
265148	JK-907A-YW	Gray/yellow	Yellow	.76 x 1.27	16	.99	.95	.89
265181	JK-907B-BL	Gray/blue	Blue	.86 x .94	17	.99	.95	.89
265172	JK-907B-YW	Gray/yellow	Yellow	.86 x .94	17	.99	.95	.89
265210	JK-907C-BL	Gray/blue	Blue	.72 x .68	18	.99	.95	.89
265201	JK-907C-YW	Gray/yellow	Yellow	.72 x .68	18	.99	.95	.89

\* For use with 1/4" knurled shaft ↑ 1/8" shaft diameter

JAMECO ValuePro

## High-Current Toroid Inductors

★ Web Code: KBY

- Low radiation
- Low core loss
- V = vertical mount;  
H = horizontal mount
- High current capacity
- Operating temp.: -55°C to +105°C
- DC - DC converter, EMI filter applications
- For complete specifications  
see datasheets, [www.Jameco.com](http://www.Jameco.com)



### J.W. Miller 2200 Series Value Equivalents

Qty.	1	10	100
Pricing	\$1.29	\$1.15	\$ .95
Orange Pricing	.65	.59	.55

Part No.	Cross Ref. No.	L (μH) @ 1kHz
371021	2201-H	10
371274	2202-V	12
371282	2203-V	15
371047	2203-H	15
371063	2205-H	22
371071	2206-H	27
371320	2207-V	33
371080	2207-H	33
371338	2208-V	39
371098	2208-H	39
371119	2210-H	56
371354	2210-V	56
371362	2211-V	68
371127	2211-H	68
371371	2212-V	100
371389	2213-V	120
371143	2213-H	120
371397	2214-V	150
371151	2214-H	150

Part No.	Cross Ref. No.	L (μH) @ 1kHz
371400	2215-V	180
371160	2215-H	180
371418	2216-V	220
371426	2217-V	270
371186	2217-H	270
371434	2218-V	330
371194	2218-H	330
371442	2219-V	390
371207	2219-H	390
371451	2220-V	470
371215	2220-H	470
371469	2221-V	560
371223	2221-H	560
371477	2222-V	680
371231	2222-H	680
371485	2223-V	820
371240	2223-H	820
371493	2224-V	1000
371258	2224-H	1000

### J.W. Miller 2300 Series Value Equivalents

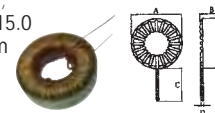
Qty.	1	10	100
Pricing	\$1.39	\$1.25	\$1.19
Orange Pricing	.75	.65	.59

Part No.	Cross Ref. No.	L (μH) @ 1kHz
386901	2301-V	10
386361	2301-H	10
386935	2302-V	12
386396	2302-H	12
386951	2303-V	15
386425	2303-H	15
387006	2305-V	22
386468	2305-H	22
387022	2306-V	27
386484	2306-H	27
386505	2307-H	33
387065	2308-H	39
386521	2308-H	39
387090	2309-V	47
387111	2310-V	56
387137	2311-V	68
386581	2311-H	68
386601	2312-H	100

Part No.	Cross Ref. No.	L (μH) @ 1kHz
387188	2313-V	120
386636	2313-H	120
386652	2314-H	150
387233	2315-V	180
386679	2315-H	180
387268	2316-V	220
386695	2316-H	220
387284	2317-V	270
386724	2317-H	270
386767	2319-H	390
387364	2320-V	470
386783	2320-H	470
387381	2321-V	560
387410	2322-V	680
387436	2323-V	820
386855	2323-H	820
388041	2324-V	1000
386880	2324-H	1000

### J.W. Miller 5700 Series Value Equivalents

- Size: A = 22.22mm max.;  
B = 11.09mm max. C = 15.0  
±1.0mm; D = 1.2±0.5mm
- High current capacity
- Low radiation
- Low core loss
- See page 122 for EMI suppression cores



Qty.	1	10	100
Pricing	\$ .95	\$ .85	\$ .75

Part No.	Cross Ref. No.	L (μH) @ 1kHz
208259	5701	10
208266	5702	25
208311	5711	50
208303	5707	75

Part No.	Cross Ref. No.	L (μH) @ 1kHz
208274	5703	125
208283	5704	275
208292	5705	450

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Chokes

## 1206 Chip Ferrite Beads

### For EMI Filtering

- 26Ω Impedance  $\pm 25\%$  @ 100MHz
- Operating temp.: -55° to 125°C
- DC resistance: 0.05Ω

Order in multiples of 10

Part No.	Mfr. Part No.	Current	10	100	500
1845371	BLM31AJ260SN1	500mA	\$.09	\$.08	\$.07

\*Epoxy Conformal Coated Chokes — Web Code WBG

## Epoxy Conformal Coated RF Chokes

- Operating temp.: -55°C to +105°C
- Dielectric strength: 500Vrms
- Color bands identification
- Low DCR
- Low cost

### J.W. Miller 77F Series Equivalents

- High current and self-resonant frequency
- Overall length: 2.41"
- Body length: 0.41"
- Lead length: 1.0"
- Body diameter: 0.157"

Order in multiples of 10

Qty.	10	100
Pricing	\$.15	\$.12
Orange Pricing	.05	.04

Part No.	Cross Ref. No.	L $\pm 5\%$ (μH)	Part No.	Cross Ref. No.	L $\pm 5\%$ (μH)
371995	77F6R8K*	6.8	372058	77F101J	100
372007	77F100K*	10	372066	77F221J	220
372015	77F270K*	27	372074	77F331J	330
372023	77F330J	33	372082	77F391J	390
372031	77F470J	47	372091	77F102J	1000
372040	77F820J	82			

\*L (μH)  $\pm 10\%$

### J.W. Miller 78F Series Equivalents

- High Q and self-resonant frequency
- Overall length: 2.28"
- Body diameter: 0.11"
- Lead length: 1.0"
- Body length: 0.28"

Order in multiples of 10

Qty.	10	100
Pricing	\$.15	\$.12
Orange Pricing	.05	.04

Part No.	Cross Ref. No.	L $\pm 5\%$ (μH)	Part No.	Cross Ref. No.	L $\pm 5\%$ (μH)
372103	78F68K*	0.68	372197	78F220J	22
372120	78F1R8K*	1.8	372200	78F270J	27
372138	78F2R7K*	2.7	372218	78F330J	33
372146	78F3R3J	3.3	372226	78F390J	39
372154	78F4R7J	4.7	372234	78F470K	47
372162	78F8R2J	8.2	372251	78F121J	120
372171	78F100J	10	372269	78F221J	220
372189	78F120J	12	372277	78F471J	470

\*L (μH)  $\pm 10\%$

## Epoxy Conformal Coated Chokes

- Operating temp.: -25°C to +85°C
- Tolerance: 5%

Order in multiples of 10

Qty.	10	100
Pricing	\$.15	\$.12
Orange Pricing	.07	.05

Part No.	Cross Ref. No.	L $\pm 5\%$ (μH)	Part No.	Cross Ref. No.	L $\pm 5\%$ (μH)
208143	CEC-100J	10	208223	CEC-471J	470
208151	CEC-270J	27	208231	CEC-821J	820
208194	CEC-101J	100	208240	CEC-102J	1000
208215	CEC-331J	330			

## Conformal Coated RF Chokes

### J.W. Miller 5300 Series Value Equivalents

- High current & self-resonant frequency
- Low DCR
- Epoxy coated to protect winding from harsh environments
- Low cost

\*Web Code: MBY

Qty.	1	10	100
Pricing	\$.55	\$.39	\$.29
Orange Pricing	.29	.25	.19

Part No.	Cross Ref. No.	L $\pm 10\%$ (μH)	Part No.	Cross Ref. No.	L $\pm 10\%$ (μH)
644332	5300-03	1.5	642476	5300-19	33
644341	5300-10	5.6	642492	5300-25	100
644375	5300-17	22	642530	5300-33	470

## Molded RF Chokes

- Dielectric strength: 1000Vrms
- Injection molded to protect from extreme environment
- High Q and high reliability

\*Web Code: PBY

### J.W. Miller 9230 Series Equivalents

Qty.	1	10	100
Pricing	\$.59	\$.49	\$.35
Orange Pricing	.35	.29	.25

Part No.	Cross Ref. No.	L $\pm 10\%$ (μH)	Part No.	Cross Ref. No.	L $\pm 10\%$ (μH)
372285	9230-94	0.10	372373	9230-34	3.9
372293	9230-00	0.15	372381	9230-36	4.7
372306	9230-04	0.22	372390	9230-44	10
372314	9230-10	0.39	372402	9230-52	22
372322	9230-12	0.47	372411	9230-56	33
372331	9230-14	0.56	372429	9230-64	68
372349	9230-16	0.68	372437	9230-68	100
372357	9230-20	1.0	372445	9230-70	120
372365	9230-32	3.3			

### J.W. Miller 9250 Series Equivalents

Qty.	1	10	100
Pricing	\$.49	\$.45	\$.39
Orange Pricing	.49	.45	.39

Part No.	Cross Ref. No.	L $\pm 10\%$ (μH)	Part No.	Cross Ref. No.	L $\pm 10\%$ (μH)
372453	9250-102	1.0	372509	9250-473	47
372461	9250-222	2.2	372517	9250-104	100
372470	9250-472	4.7	372525	9250-224	220
372488	9250-103	10	372533	9250-474	470
372496	9250-223	22	372550	9250-225	2200

## Hash RF Chokes

### J.W. Miller 5200 Series Value Equivalents

- High current capacity
- Varnish coated
- Ideal for use as EMI filter, output choke smoothing coil
- Low DCR

Qty.	1	10	100
Pricing	\$.69	\$.59	\$.55

Part No.	Cross Ref. No.	L $\pm 10\%$ (μH)	Part No.	Cross Ref. No.	L $\pm 10\%$ (μH)
642396	5230	4	642417	5254	250
642409	5240	40	642425	5256	500
681070	5252	125	642433	5258	1000

## Axial Leaded RF Chokes

- Inductive tolerance: 10%
- Operating temp.: -55°C to +125°C
- Overall length: 3.6" max.
- Lead length: 1.5" max.
- Body length: 0.77" max.
- Body dia.: 0.3" max.

\*Web Code: XCF

### J.W. Miller 4600 Series Value Equivalents

Qty.	1	10	100
Pricing	\$.35	\$.29	\$.25

Part No.	Cross Ref. No.	L $\pm 10\%$ (μH)	Part No.	Cross Ref. No.	L $\pm 10\%$ (μH)
208071	4604	1.5	642337	4624	15
208080	4606	2.4	642345	4626	24
208101	4609	5.5	642353	4629	55
208119	4610	6.2	642388	4632	100
208127	4611	8.2			

## High Current Axial RF Chokes

- High current capacity
- Ferrite bobbin core
- Test frequency: 1kHz
- Low DCR

JAMECO EXCLUSIVE

\*Web Code: BCG

### J.W. Miller 5800 Series Value Equivalents

Qty.	1	10	100
Pricing	\$.69	\$.55	\$.39
Orange Pricing	.35	.29	.25

Part No.	Cross Ref. No.	L $\pm 10\%$ (μH)	Part No.	Cross Ref. No.	L $\pm 10\%$ (μH)
642548	5800-3R9	3.9	642652	5800-271	270
642556	5800-8R2	8.2	642679	5800-391	390
642564	5800-100	10	642695	5800-102	1000
642572	5800-470	47	642708	5800-152	1500
642581	5800-560	56	642716	5800-222	2200
642599	5800-820	82	642724	5800-472	4700
642601	5800-101	100	642732	5800-682	6800
642610	5800-121	120	642741	5800-103	10000
642644	5800-221	220			

### J.W. Miller 5900 Series Value Equivalents

Qty.	1	10	100
Pricing	\$.99	\$.79	\$.59
Orange Pricing	.49	.45	.39

Part No.	Cross Ref. No.	L $\pm 10\%$ (μH)	Part No.	Cross Ref. No.	L $\pm 10\%$ (μH)
642759	5900-100	10	642847	5900-331	330
642767	5900-220	22	642855	5900-391	390
642775	5900-470	47	642871	5900-681	680
642783	5900-560	56	642880	5900-102	1000
642804	5900-121	120	642919	5900-682	6800
642812	5900-151	150	642901	5900-472	4700
642821	5900-221	220	642927	5900-103	10000
642839	5900-271	270			

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JAMECO ValuePro

## Hook-Up Wire – Single & Dual Rated

- Applications: Interconnection circuits, wiring of computer and data processing equipment, applications and automotive • Tin-plated copper • PVC insulation • Stranded • Sold in 100' rolls

**Single Rated (UL1007):** -40° to 80°C: 300V peak

**Dual Rated (UL1007 & UL1569):** -40° to 105°C: 300V peak

Appliance Wiring Material (AWM) is UL recognized covering of insulated wire & cable intended for internal wiring of appliances & equipment.



AWG	Stranding	UL1007	UL1569	Black P/N	Red P/N	White P/N	Green P/N	Yellow P/N	Blue P/N	1	5	10
28	7 x 36	x	x	734611	734603	734610	734606	734605	734614	\$6.95	\$6.49	\$5.95
26	7 x 34	x	x	734511	734503	734510	734506	734505	734514	7.95	7.29	6.49
24	7 x 32	x	x	734411	734403	734410	734406	734405	734414	8.95	7.95	6.95
22	7 x 30	x		126085	126034	126077	310852	310878	310886	7.95	6.95	5.95
22	7 x 30	x	x	734311	734303	734310	734306	734305	734314	9.95	8.95	7.95
20	10 x 30	x		125840	125795	125831	310894	310915	310922	9.95	8.95	7.95
20	10 x 30	x	x	734211	734203	734210	734206	734205	734214	11.95	10.95	9.95
18	16 x 30	x		125787	125736	125752	310932	310949	310958	13.95	12.95	11.95
18	16 x 30	x	x	734111	734103	734110	734106	734105	734114	16.95	15.49	13.95
16	26 x 30	x	x	734011	734003	734010	734006	734005	734014	19.95	17.95	15.95

\*Web Code: JAS

## Composite Data, Audio, Video Security & Control Cable

Two RG6 18 AWG solid bare copper conductors and Two 4-pair UTP 24 AWG solid bare copper conductors



- Gas injected FPE insulation coax cable, polyolefin insulation CAT5e cable and F-R PVC jackets
- Banana Peel™ jacketless cable
- Component nominal outer diameter: 0.194"
- Overall nominal outer diameter: 0.600"
- Color: black

Part No.	Mfr. Part No.	Description	Price
734163	7913S-1000	1000' reel	\$549.95

**Prototyping Products – pages 162-168**  
**Soldering Equipment – pages 155-160**  
**Wire Cutters/Strippers – pages 150-152**

## Solid Hook-Up Wire – 22 AWG

\*Web Code: PAF

- Temperature range: -55°C to +105°C
- Passes UL VW-1 flame test • MIL-W-16878/1, type B PVC
- For use with breadboards such as the JE20 series, pg 162



100 Foot Reel		Pricing	
Part No.	Color	1	5
36768	Blue	\$7.49	\$6.79
36792	Black	7.49	6.79
36822	Green	7.49	6.79
36856	Red	7.49	6.79
36881	White	7.49	6.79
36920	Yellow	7.49	6.79

1000 Foot Reel		Pricing	
Part No.	Color	1	5
36776	Blue	\$59.95	\$54.95
36805	Black	59.95	54.95
36840	Green	59.95	54.95
36864	Red	59.95	54.95
36899	White	59.95	54.95
36928	Yellow	59.95	54.95

## Kynar™ Wire-Wrap Wire – 30 AWG

\*Web Code: NAC

- Polyvinylidene fluoride insulation • Used for prototyping
- Silver plated copper (solid conductor) • UL 1423
- Temperature: -40°C to +125°C • Passes UL VW-1 flame test
- Wire wrap tools, pg 153 • See pg 17 for sockets



100 Foot Reel		Pricing	
Part No.	Color	1	5
22542	Blue	\$8.95	\$7.95
22577	Black	8.95	7.95
22631	Red	8.95	7.95
22665	White	8.95	7.95
22606	Green	8.95	7.95
22700	Yellow	8.95	7.95

1000 Foot Reel		Pricing	
Part No.	Color	1	5
22551	Blue	\$54.95	\$49.95
22585	Black	54.95	49.95
22649	Red	54.95	49.95
22673	White	54.95	49.95
22614	Green	54.95	49.95
22702	Yellow	54.95	49.95

JAMECO ValuePro

## Twisted Paired Cable – 24 AWG

- PVC insulation • Reduced EMI
- Use for hook-up wire • 80°C
- Stranded tinned wire (7 x 32) • 300 V

\*Web Code: EBC



100 Foot Reel		Pricing	
Part No.	Color	1	5
173164	Black/white <i>R</i>	\$9.95	\$8.95
105912	Grn/white <i>R</i>	9.95	8.95
173148	Red/white <i>R</i>	9.95	8.95

1000 Foot Reel		Pricing	
Part No.	Color	1	5
173172	Black/white <i>R</i>	\$79.95	\$69.95
105807	Grn/white <i>R</i>	79.95	69.95
173156	Red/white <i>R</i>	79.95	74.95

JAMECO ValuePro

## Modular Telephone Cable – 28 AWG

- Color coded conductors
- Flat modular cable • Gray
- 7 x 43 stranded • PVC jacket

\*Web Code: LCG



Part No.	Cross Ref. No.	Conductors	Length (ft.)	1	5	10
644666	300-840SL-100	4	100	\$6.95	\$6.49	\$5.95
644674	300-840SL-1000	4	1000	49.95	44.95	39.95
644691	300-860SL-100	6	100	9.95	8.95	7.95
644703	300-860SL-1000	6	1000	69.95	64.95	59.95
644720	300-880SL-100	8	100	10.95	9.95	8.95
644738	300-880SL-1000	8	1000	89.95	84.95	79.95

JAMECO ValuePro

## 1/4 Lb. Magnet Wire

\*Web Code: MGT

Excellent Windability!

Magnetic wire is perfect for custom winding applications: coils, inductors, transformers, motors, ballasts, relays, speakers and timers.

- Solid bare copper conductor
- Polyurethane/polyamide (nylon) insulation
- Solderable @ 806°F/430°C (14-24 AWG), 680°F/360°C (25-40 AWG)
- Approvals: MIL JW-1177/9, MW 28-C, Class 130 (14-24 AWG)  
MIL JW-1177/42, MW 80-C, Class 155 (25-40 AWG)



Part No.	Gauge	Nom. O.D	Length (ft.)	Temp. Range	1	5	25
2098371	16 AWG	.0524"	32	-30° - 130°C	\$5.95	\$5.39	\$4.95
2098380	18 AWG	.0418"	51	-30° - 130°C	6.49	5.95	5.39
2098398	20 AWG	.0334"	81	-30° - 130°C	6.95	6.25	5.69
2098401	22 AWG	.0265"	129	-30° - 130°C	7.49	6.95	6.25
2098419	24 AWG	.0213"	205	-30° - 130°C	7.95	7.25	6.49
2119347	26 AWG	.0169"	328	-30° - 155°C	8.49	7.59	6.95
2119355	28 AWG	.0136"	520	-30° - 155°C	8.95	7.95	7.25
2119363	30 AWG	.0109"	825	-30° - 155°C	9.49	8.49	7.49

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Coaxial & Multi-Conductor Cables

4 LEVELS OF SAVINGS			
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**BELDEN**

## Coaxial Cable

**JAMECO ValuePro**

★ Web Code: CLC

Common Coax Cables: RG-#/U (RG = Radio Grade; U = Universal)

RG-8: Amateur radio; thicker than RG-6, 50Ω

RG-59: Baseband video in CCTV, low shielding, 75Ω

RG-6: CATV/SAT, 18 AWG, 75Ω

RG-58: Radio communication, amateur radio, 50Ω

RG-174: WiFi pigtails, more flexible but higher loss than RG-58, 50Ω

• Color: black • PVC jacket

Part No.	Mfr.	Product No.	Fig.	Length	AWG	Type	Nom. Imp (Ω)	Insul.	Bare Copper	Braid Shield	Pricing	
											1	5
233269	BDN	9116010100	1	100' Reel	18 Solid	RG6	75	B	0.040"	60 <sup>1</sup>	\$14.95	\$13.95
732769	BDN	8214 010500 <sup>R</sup>	2	500' Reel	11 Stranded	RG8/U	50	A	0.108"	97	499.95	479.95
232776	BDN	8214 0101000	2	1000' Reel	11 Stranded	RG8/U	50	A	0.108"	97	649.95	629.95
732865	BDN	8237 0101000 <sup>R</sup>	2	1000' Reel	13 Stranded	RG8/U	52	A	0.085"	97	849.95	799.95
2124146	JVP	4449-100 <sup>R</sup>	3	100' Reel	19 Stranded	RG58A/U	50	A	0.036"	95	32.95	31.49
644754	JVP	RG58/U-100	4	100' Reel	20 Solid	RG58/U	50	A	0.015"	38	14.95	13.95
644762	JVP	RG58/U-1000	4	1000' Reel	20 Solid	RG58/U	50	A	0.015"	38	99.95	94.95
234158	BDN	543945 010100	1	100' Reel	20 Solid	RG59/U	75	C	0.145"	95	16.95	15.95
234086	BDN	1505A 010100	5	100' Reel	20 Solid	RG59/U	75	B	0.032"	98 <sup>2</sup>	32.95	29.95
232961	BDN	8281 010100	2	100' Reel	20 Solid	RG59/U	75	A	0.031"	98	44.95	39.95
734161	BDN	543945 010500 <sup>R</sup>	1	500' Reel	20 Solid	RG59/U	75	C	0.145"	95	74.95	69.95
732980	BDN	8281 010500 <sup>R</sup>	2	500' Reel	20 Solid	RG59/U	75	A	0.031"	98	349.95	329.95
734088	BDN	1505A 010100 <sup>R</sup>	5	1000' Reel	20 Solid	RG59/U	75	B	0.032"	98 <sup>2</sup>	329.95	319.95
644797	JVP	RG59/U-100	4	100' Reel	22 Solid	RG59/U	75	A	0.005"	31	12.95	11.95
644800	JVP	RG59/U-1000	4	1000' Reel	22 Solid	RG59/U	75	A	0.005"	31	79.95	74.95
232653	BDN	9259 010100 <sup>R</sup>	2	100' Reel	22 Stranded	RG59/U	75	A	0.030"	95	49.95	39.95
2119443	JVP	4459-100 <sup>R</sup>	3	100' Reel	26 Stranded	RG174/U	50	A	0.019"	90	39.95	37.95
644818	JVP	RG174/U-100	3	100' Reel	26 Stranded	RG174/U	50	A	0.020"	98	19.95	18.95
644826	JVP	RG174/U-1000	3	1000' Reel	26 Stranded	RG174/U	50	A	0.020"	98	179.95	169.95



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

A = Polyethylene  
B = Gas Injected Foam HDPE  
C = Polyolefin  
1 = With Duobond 11 & Aluminum braid  
2 = With DuoFoil Shield

**BELDEN**

## Multi-Conductor Cable

**JAMECO ValuePro**

★ Web Code: MCC

Part No.	Mfr.	Product No.	Fig.	AWG (stranded)	# of Cond.	Length	Jacket	Wire Color	Insul.	Nom. O.D.	Pricing	
											1	5
732996	BDN	8442 060100 <sup>R</sup>	1	22 <sup>1</sup>	2	100' Reel	Chrome/PVC	Black, Red	A	0.170"	\$29.95	\$26.95
733008	BDN	8442 060500 <sup>R</sup>	1	22 <sup>1</sup>	2	500' Reel	Chrome/PVC	Black, Red	A	0.170"	119.95	109.95
734054	BDN	8442 060U1000 <sup>R</sup>	1	22 <sup>1</sup>	2	1000' Unreel	Chrome/PVC	Black, Red	A	0.170"	199.95	189.95
733024	BDN	8443 060100 <sup>R</sup>	2	22 <sup>1</sup>	3	100' Reel	Chrome/PVC	Black, Red, Green	A	0.172"	34.95	32.95
733032	BDN	8443 060500 <sup>R</sup>	2	22 <sup>1</sup>	3	500' Reel	Chrome/PVC	Black, Red, Green	A	0.172"	139.95	135.95
733059	BDN	8444 060100 <sup>R</sup>	3	22 <sup>1</sup>	4	100' Reel	Chrome/PVC	Black, Red, White, Green	A	0.185"	44.95	42.95
733067	BDN	8444 060500 <sup>R</sup>	3	22 <sup>1</sup>	4	500' Reel	Chrome/PVC	Black, Red, White, Green	A	0.185"	179.95	169.95
733083	BDN	8445 060100 <sup>R</sup>	4	22 <sup>1</sup>	5	100' Reel	Chrome/PVC	Blk, Red, Wh, Grn, Brn	A	0.194"	59.95	54.95
733104	BDN	8445 0601000 <sup>R</sup>	4	22 <sup>1</sup>	5	1000' Reel	Chrome/PVC	Blk, Red, Wh, Grn, Brn	A	0.194"	349.95	339.95
733201	BDN	8770 060100 <sup>R</sup>	5	18/20 drain wire <sup>2</sup>	3	100' Reel	Chrome/PVC	Black, Red, Clear	B	0.246"	59.95	57.95
2119558	JVP	5578-100 <sup>R</sup>	5	18/20 drain wire <sup>3</sup>	3	100' Reel	Chrome/PVC	Black, Red, White	B	0.230"	49.95	44.95
733227	BDN	8770 0601000 <sup>R</sup>	5	18/20 drain wire <sup>2</sup>	3	1000' Reel	Chrome/PVC	Black, Red, Clear	B	0.246"	599.95	569.95
2119531	JVP	5576-100 <sup>R</sup>	5	22/22 drain wire <sup>2</sup>	3	100' Reel	Gray/PVC	Black, Red, White	B	0.190"	29.95	28.49
644383	JVP	SC4-25 <sup>R</sup>	6	24 drain wire <sup>3</sup>	4	25' Reel	Gray/PVC	Multi-Colored	A	0.200"	6.95	6.25
644391	JVP	SC4-100 <sup>R</sup>	6	24 drain wire <sup>3</sup>	4	100' Reel	Gray/PVC	Multi-Colored	A	0.200"	24.95	22.49
644404	JVP	SC4-1000 <sup>R</sup>	6	24 drain wire <sup>3</sup>	4	1000' Reel	Gray/PVC	Multi-Colored	A	0.200"	199.95	189.95
644412	JVP	SC-925 <sup>R</sup>	6	24 drain wire <sup>3</sup>	9	25' Unreel	Gray/PVC	Multi-Colored	A	0.230"	14.95	12.95
644421	JVP	SC9-100 <sup>R</sup>	6	24 drain wire <sup>3</sup>	9	100' Reel	Gray/PVC	Multi-Colored	A	0.230"	44.95	39.95
644439	JVP	SC9-1000 <sup>R</sup>	6	24 drain wire <sup>3</sup>	9	1000' Reel	Gray/PVC	Multi-Colored	A	0.230"	349.95	329.95
644447	JVP	SC15-25 <sup>R</sup>	6	24 drain wire <sup>3</sup>	15	25' Unreel	Gray/PVC	Multi-Colored	A	0.280"	24.95	22.95
644455	JVP	SC15-100 <sup>R</sup>	6	24 drain wire <sup>3</sup>	15	100' Reel	Gray/PVC	Multi-Colored	A	0.280"	49.95	44.95
644463	JVP	SC15-1000 <sup>R</sup>	6	24 drain wire <sup>3</sup>	15	1000' Reel	Gray/PVC	Multi-Colored	A	0.280"	399.95	379.95
644471	JVP	SC25-25 <sup>R</sup>	6	24 drain wire <sup>3</sup>	25	25' Unreel	Gray/PVC	Multi-Colored	A	0.370"	29.95	26.95
644480	JVP	SC25-100 <sup>R</sup>	6	24 drain wire <sup>3</sup>	25	100' Reel	Gray/PVC	Multi-Colored	A	0.370"	89.95	85.95
2006377	JVP	SC25-500 <sup>R</sup>	6	24 drain wire <sup>3</sup>	25	500' Unreel	Gray/PVC	Multi-Colored	A	0.370"	399.95	379.95



Fig. 1



Fig. 2



Fig. 3



Fig. 4

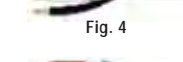


Fig. 5



Fig. 6

1 = Unshielded  
2 = Overall Beldfoil Shield  
3 = 100 Aluminum Mylar Shield  
A = PVC B = Polyethylene  
Blk = Black Brn = Brown  
Grn = Green Wh = White

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Search easily for products by entering the manufacturer number, Jameco part number or keyword.

\* BDN = Belden | JVP = Jameco ValuePro

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.



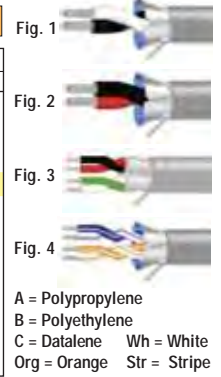
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## Paired Cable

★ Web Code: HCS

Part No.	Product No.	Fig.	AWG/Drain Wire	# of Pairs	Length	Jacket	Wire Color	Insul.	Pricing		
									1	5	
733172	8720 060100	1	14 / 16	1	100' Reel	Chrome/PVC	Black/Clear	B	\$79.95	\$74.95	
733190	8720 060500	1	14 / 16	1	500' Reel	Chrome/PVC	Black/Clear	B	369.95	349.95	
233146	8719 060100	1	16 / 18	1	100' Reel	Chrome/PVC	Black/Clear	B	69.95	63.95	
2119515	5574-100	1	18 / 24	1	100' Reel	Chrome/PVC	Black/White	B	41.95	37.95	
733112	8451 010100	2	22 / 22	1	100' Reel	Black/PVC	Black/PVC	A	26.95	24.95	
734063	8451 010U500	2	22 / 22	1	500' Unreel	Black/PVC	Black/Red	A	129.95	115.95	
734180	8723 060100	3	22 / 24	2	100' Reel	Chrome/PVC	Black/Red, Green/White	A	49.95	46.95	
734184	8723 060U500	3	22 / 24	2	500' Unreel	Chrome/PVC	Black/Red, Green/White	A	209.95	199.95	
734181	8723 0601000	3	22 / 24	2	1000' Reel	Chrome/PVC	Black/Red, Green/White	A	399.95	379.95	
734179	1419A 060100	4	24 / 24	2	100' Reel	Chrome/PVC	Wh/Blue Str, Blue/Wh Str, Wh/Org Str, Org/Wh Str	C	39.95	34.95	
734085	1419A 0601000	4	24 / 24	2	1000' Reel	Chrome/PVC	Wh/Blue Str, Blue/Wh Str, Wh/Org Str, Org/Wh Str	C	314.95	299.95	

\*Manufacturer: ValuePro



JAMECO ValuePro

## Flat Ribbon Cable

Gray Cable — 28AWG (7 x 36)

★ Web Code: WBX

- Insulation: polyvinyl chloride (PVC)
- Single edge red stripe for pin 1 orientation



• Prepackaged and priced in lengths listed below

Multicolor Cable — 28AWG (7 x 36)

- Standard 10-color repeat sequence
- Voltage rating: 300V
- Stranded copper wire
- Center spacing: 0.05"
- Temp. rating: -20°C to +80°C



★ Web Code: WCF

Part No.	Cross Ref. No.	Conductors	Length	1	5	25
643794	171-10-10	10	10'	\$2.95	\$2.65	\$2.39
643807	171-10-25	10	25'	5.95	5.49	4.95
643815	171-10-100	10	100' reel	18.95	16.95	15.95
643831	171-16-10	16	10'	3.95	3.59	3.29
643840	171-16-25	16	25'	8.95	7.95	6.95
643858	171-16-100	16	100' reel	27.95	26.95	24.95
643874	171-20-10	20	10'	3.75	3.49	3.29
643891	171-20-100	20	100' reel	34.95	32.95	29.95
643911	171-25-10	25	10'	4.49	3.95	3.75
643920	171-25-25	25	25'	10.95	9.95	9.49
643938	171-25-100	25	100' reel	39.95	36.95	34.95
643962	171-26-10	26	10'	5.95	5.49	4.95
643971	171-26-25	26	25'	12.95	11.95	10.95
643989	171-26-100	26	100' reel	49.95	47.95	44.95
644033	171-34-10	34	10'	5.95	5.49	4.95
644041	171-34-25	34	25'	12.95	11.95	10.95
644050	171-34-100	34	100' reel	53.95	51.95	48.95
644076	171-37-10	37	10'	6.95	5.95	5.49
644084	171-37-25	37	25'	11.95	10.95	9.95
644092	171-37-100	37	100' reel	49.95	46.95	44.95
644113	171-40-10	40	10'	8.49	7.49	6.49
644121	171-40-25	40	25'	16.95	15.95	13.95
644130	171-40-100	40	100' reel	55.95	52.95	49.95
644156	171-50-10	50	10'	9.95	8.95	7.95
644164	171-50-25	50	25'	19.95	18.95	17.95
644172	171-50-100	50	100' reel	69.95	62.95	58.95
689426	9L28050008H100	50	100' reel	109.95	104.95	99.95
644199	171-60-10	60	10'	6.95	5.95	4.95
644201	171-60-25	60	25'	16.95	15.95	14.95
644210	171-60-100	60	100' reel	69.95	64.95	59.95

\*Belden: -40°C to +105°C

JAMECO ValuePro

## Flat Ribbon Cable – Gray

★ Web Code: WBX

100" (2.54mm) — 24AWG

- Capacitance: 31pF/m
- Insulation resis.: 100MΩ
- Temp. rating: 105°C
- Insulation material: 7mm polyvinyl chloride (PVC) gray



Part No.	Mfr.	Cross Ref.	Conductor	Length	1	5	25
363813	ValuePro	H24G-10-10	10	10'	\$9.95	\$8.95	\$7.95

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# Speaker, Network & Modular Cable

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## Speaker Cable

\*Web Code: JCS

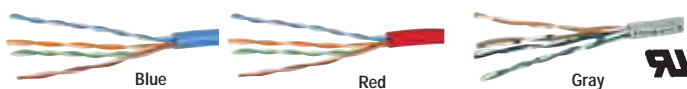
Part No.	Product No.	Length	AWG	Color	1	5
734081	9708 368U1000	1000' Unreel	18 Stranded	Clear	\$349.95	\$329.95
232602	9717 368100	100' Reel	14 Stranded	Clear	49.95	44.95
733430	9717 368500	500' Reel	14 Stranded	Clear	299.95	279.95
232629	9718 368100	100' Reel	12 Stranded	Clear	64.95	59.95
732646	9718 3681000	1000' Reel	12 Stranded	Clear	799.95	789.95



JAMECO ValuePro

## Category 5e Network Cable

\*Web Code: KCG



### 24 AWG UTP Category 5e Enhanced - 350MHz (Non-Plenum)

Part No.	*Mfr.	Product No.	Length	Color	Description	1	5
645722	JVP	10X5-704TH-100VP	100'	Blue	Solid	\$14.95	\$13.49
645731	JVP	10X5-704TH-1000	1000'	Blue	Solid	119.95	109.95
644551	JVP	10X5-701TH-100	100'	Gray	Solid	14.95	13.49
644560	JVP	10X5-701TH-1000	1000'	Gray	Solid	119.95	109.95
644607	JVP	10X5-804TH-25	25'	Blue	Stranded	5.95	5.49
644615	JVP	10X5-804TH-100	100'	Blue	Stranded	16.95	14.95
644623	JVP	10X5-804TH-1000	1000'	Blue	Stranded	125.95	109.95
645781	JVP	10X5-802TH-100	100'	Black	Stranded	16.95	14.95
645790	JVP	10X5-802TH-1000	1000'	Black	Stranded	125.95	109.95
644586	JVP	10X5-801TH-100	100'	Gray	Stranded	16.95	14.95
644594	JVP	10X5-801TH-1000	1000'	Gray	Stranded	125.95	109.95

### 24 AWG UTP Category 5e Enhanced - 350MHz (Plenum)

Part No.	*Mfr.	Product No.	Length	Color	Description	1	5
734097	BDN	1585A D15100	100'	Blue	Solid	\$29.95	\$26.95
734093	BDN	1585A 877100	100'	Natural	Solid	29.95	26.95
734096	BDN	1585A 877U1000	1000' Unreel	Natural	Solid	249.95	229.95
1941970	BDN	1701A 0091000	1000'	White	Solid	329.95	299.95

\*Bonded

\* Category 5e Network Cable — Enter Web Code CAE

\* Category 6 Network Cable — Enter Web Code BBK

## JAMECO ValuePro 2-Conductor Power/Speaker Cable – 24 AWG

- Black wire with white polarity stripe
- Temperature rating: 20°C to 60°C
- Stranded copper wire (7 x 32)
- Operating voltage: 300V

JAMECO EXCLUSIVE

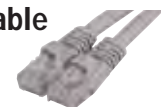


\*Web Code: VAL

Part No.	Product No.	Length	1	5	10
100280	CAR45B-100	100'	\$7.95	\$7.25	\$6.49
100299	CAR45B-1K	1000'	54.95	49.95	46.95

## Cat 5e/6 Network Crossover Cable

- Connect 2 PCs without a hub
- 24AWG (7 x 43) stranded
- Strain relief RJ45 connectors
- 4-pair • 8P8C • UTP



Part No.	*Mfr.	Length	Description	1	10	100
2115573	BEL	3 ft.	Cat 5e red	\$2.49	\$2.25	\$1.95
302041	JVP	7 ft.	Cat 5e gray	3.75	3.35	2.95
685812	BEL	7 ft.†	Cat 5e yellow	3.75	3.35	2.95
169261	JVP	10 ft.	Cat 5e gray	6.95	6.25	5.65
203781	JVP	12 ft.	Cat 5e black	7.95	6.95	5.95
679762	+	3 ft.	Cat 6 gray	2.95	2.65	2.35
681096	+	7 ft.	Cat 6 gray	3.75	3.35	2.95

† Without snagless boot

JAMECO ValuePro

## Category 6

- Gold over nickel contacts
- With RJ45 plugs and molded strain reliefs
- Assembled using ETL verified 24AWG stranded cable
- Exceeds performance levels as specified in TIA/EIA 568B.2-1 category 6



Part No.	Length	Color	1	10	100
2115581	1 ft.	Gray	\$2.25	\$1.95	\$1.75
219707	3 ft.	Gray	2.25	1.95	1.75
219715	7 ft.	Gray	3.25	2.95	2.49
219723	14 ft.	Gray	6.25	5.49	4.95
219731	25 ft.	Gray	8.95	7.95	6.95
219740	50 ft.	Gray	13.95	12.55	10.95
219854	3 ft.	Blue	2.49	2.25	1.95
219862	7 ft.	Blue	3.25	2.95	2.49
219871	14 ft.	Blue	6.25	5.49	4.95
219889	25 ft.	Blue	8.95	7.95	6.95
219897	50 ft.	Blue	13.95	12.55	10.95
220011	7 ft.	White	2.95	2.65	2.35
2115602	1 ft.	Red	2.25	1.95	1.75
219900	3 ft.	Red	2.25	1.95	1.75
219918	7 ft.	Red	3.25	2.95	2.49
219934	25 ft.	Red	7.95	7.49	6.95
219942	50 ft.	Red	12.49	11.49	9.95
219803	3 ft.	Green	2.25	1.95	1.75
219811	7 ft.	Green	3.25	2.95	2.49
219820	14 ft.	Green	6.25	5.49	4.95
219766	7 ft.	Black	3.25	2.95	2.49
219782	25 ft.	Black	7.95	7.49	6.95
219791	50 ft.	Black	10.95	9.95	9.49

## Network Cable

### Category 6 (Continued)

Part No.	Length	Color	1	10	100
2115590	1 ft.	Yellow	\$2.25	\$1.95	\$1.75
219969	7 ft.	Yellow	3.25	2.95	2.49

### Category 5e

- 8P8C • 4 pair • UTP
- 350 MHz • "Snagless" boot
- 24 AWG (7 x 43) stranded
- Color coded for easy wire tracing



Part No.	Length	Color	1	10	100
168292	3 ft.	Gray	\$1.55	\$1.39	\$1.25
168305	7 ft.	Gray	2.95	2.49	2.25
168313	15 ft.	Gray	3.95	3.55	2.95
168321	25 ft.	Gray	6.75	5.95	5.35
201777	3 ft.	Red	1.55	1.39	1.25
201785	7 ft.	Red	2.95	2.49	2.25
201793	15 ft.	Red	3.95	3.55	2.95
201806	25 ft.	Red	6.75	5.95	5.35
201697	3 ft.	Black	1.55	1.39	1.25
201700	7 ft.	Black	2.25	1.95	1.75
201718	15 ft.	Black	3.95	3.55	2.95
201726	25 ft.	Black	6.75	5.95	5.35
201734	3 ft.	Blue	1.55	1.39	1.25
1945381	5 ft.	Blue	1.95	1.75	1.65
201742	7 ft.	Blue	2.25	1.95	1.75
1945401	10 ft.	Blue	3.49	3.15	2.75
201751	15 ft.	Blue	3.95	3.55	2.95
201769	25 ft.	Blue	6.75	5.95	5.35
522845	50 ft.	Blue	8.95	7.95	7.25
201814	3 ft.	Yellow	1.55	1.39	1.25

### Category 5e (Continued)

Part No.	Length	Color	1	10	100
1945372	5 ft.	Yellow	\$1.95	\$1.75	\$1.65
201822	7 ft.	Yellow	2.95	2.49	2.25
1945399	10 ft.	Yellow	3.49	2.95	2.49
201831	15 ft.	Yellow	3.95	3.55	2.95
201849	25 ft.	Yellow	7.95	6.95	5.95

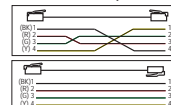
## JAMECO ValuePro Modular Telephone/Printer Sharing Cable (Gray)

- RJ12 – 4P4C for telephone
- RJ11 – 6P4C for telephone or network
- RJ11 – 6P6C for telephone or printer sharing
- RJ45 – 8P8C for telephone or modem-dial-up use

\*Web Code: EBF

Style 1 – Reverse wiring for telephone systems

Style 2 – Straight wiring for networking/printer sharing



Part No.	Conn. Style	Type	Length	Pricing		
				1	10	100
2125851	1	RJ12-4P4C	6ft.	\$1.49	\$1.35	\$1.19
196227	1	RJ11-6P4C	7ft.	1.75	1.59	1.39
115554	2	RJ11-6P4C	7ft.	1.75	1.59	1.39
115588	1	RJ11-6P6C	7ft.	1.49	1.35	1.19
115617	2	RJ11-6P6C	7ft.	1.95	1.75	1.59
115677	2	RJ45-8P8C	7ft.	1.95	1.75	1.59
115545	1	RJ11-6P4C	25ft.	2.95	2.65	2.35
201232	2	RJ11-6P4C†	35ft.	1.75	1.59	1.39

† Beige

\* BDN = Belden | BEL = Belkin | JVP = Jameco ValuePro | + Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.



JAMECO ValuePro

## Modular Plugs

\*Web Code: FBB

P = No. of positions  
C = No. of contacts

Part No.	*Mfr.	Description	Size (L" x W" x H")	1	10	100	1000
103491	JVP	4P4C (RJ14) handset	.49 x .30 x .26	*	\$.13	\$.12	\$.09
79290	JVP	6P4C (RJ11)	.49 x .38 x .26	*	.14	.13	.10
79273	JVP	6P6C (RJ11)	.49 x .38 x .26	.25	.23	.20	.18
79281	JVP	8P8C (RJ45) (for stranded wire)	.85 x .46 x .31	.47	.43	.38	.29
119343	JVP	8P8C (RJ45) unshielded (for solid wire)	.85 x .46 x .31	.45	.39	.35	.29
524411	AMP	8P8C, unshielded (for oval solid wire)	.85 x .46 x .31	.59	.55	.49	.45
524533	AMP	8P8C (RJ45) unshielded (for round solid wire)	.84 x .46 x .31	.69	.65	.59	.55
524525	AMP	8P8C (RJ45) unshielded (for round stranded wire)	.84 x .46 x .31	.79	.69	.59	.55
116611	JVP	8P8C (RJ45) shielded	.87 x .46 x .33	1.09	.99	.89	.79
204231	JVP	8P8C (RJ45) shielded (for STP wire)	.48 x .46 x .28	.75	.69	.65	.59
116602	JVP	8P8C (RJ45) shielded (for solid wire)	.85 x .46 x .31	.99	.89	.79	.59
180646	JVP	10P10C (RJ50) for stranded wire	.85 x .46 x .31	.49	.45	.39	.35

## Modular Jacks

\*Web Code: NEL

Part No.	*Mfr.	Description	Panel Mount	Size (L" x W" x H")	1	10	100	1000
115128	JVP	4P4C (RJ14) handset side entry, center latch	No	.51 x .40 x .57	\$.45	\$.39	\$.35	\$.29
852836	AMP	4P4C (RJ14) side entry, center latch, flangeless	No	.82 x .44 x .63	.59	.55	.49	.45
2121560	+	4P4C (RJ14) side entry, center latch, right angle PCB	No	.72 x .57 x .41	.65	.59	.49	.39
199620	JVP	4P4C (RJ14) handset side entry, center latch	Yes	.51 x .55 x .57	.35	.29	.25	.22
105945	JVP	6P4C (RJ11) side entry, center latch, top flange	Yes	.48 x .48 x .71	*	.19	.17	.15
2077781	+	6P4C (RJ11) side entry, center latch	No	.72 x .51 x .45	.45	.39	.35	.29
151766	JVP	6P4C (RJ11) side entry, center latch	Yes	.80 x .52 x .59	.65	.59	.55	.49
524277	AMP	6P6C (RJ11) top entry, center latch, flangeless	No	.53 x .64 x .63	.65	.59	.55	.49
2077221	+	6P6C (RJ11) side entry, front latch, PCB ground	Yes	.73 x .55 x .58	.69	.59	.49	.45
115837	JVP	6P6C (RJ11) side entry, center latch	Yes	.51 x .48 x .57	.85	.75	.65	.59
204178	JVP	6P6C (RJ11) dual entry, center latch	Yes	.62 x 1.1 x .60	1.35	1.19	.99	.79
124039	JVP	6P6C (RJ11) top entry, 6' leads, panel mount	Yes	.54 x .59 x .72	1.25	1.09	.99	.89
800315	MOL	6P6C (RJ11) side entry, center latch, unshielded, 4 gangs	No	.92 x .85 x .52	2.69	2.45	2.19	1.95
852449	AMP	6P6C (RJ25) side entry, center latch, SMT, low profile	Yes	.72 x .63 x .50	.99	.89	.79	.69
889129	AMP	6P6C (RJ25) top entry, center latch SMT	No	.55 x .53 x .50	1.49	1.39	1.29	1.19
115844	JVP	8P8C (RJ45) side entry, center latch	No	.53 x .60 x .57	.69	.59	.55	.49
2078240	+	8P8C (RJ45) side entry, center latch	Yes	.81 x .60 x .59	.69	.59	.49	.45
203449	JVP	8P8C (RJ45) side entry, center latch, shielded	No	.84 x .63 x .53	.95	.85	.75	.65
2078258	+	8P8C (RJ45) side entry, center latch, low profile	No	.71 x .60 x .46	.45	.39	.35	.29
524461	AMP	8P8C (RJ45) side entry, front latch, low profile	No	.72 x .61 x .50	.55	.49	.45	.39
2078266	+	8P8C (RJ45) side entry, front latch, low profile	No	.68 x .59 x .49	.45	.39	.35	.29
1537416	KYC	8P8C (RJ45) side entry, front latch, low profile	Yes	.72 x .60 x .50	.59	.49	.39	.29
524488	AMP	8P8C (RJ45) top entry, top latch	No	.66 x .62 x .63	.65	.59	.55	.49
2077790	+	8P8C (RJ45) top entry, bottom latch	Yes	.64 x .61 x .62	.55	.49	.45	.39

JAMECO ValuePro

## RS-232-to-RJ11/RJ45 Modular Jack Adapters

Simplify networking applications when changing your RS-232 port to an RJ11 or RJ45 modular jack.

Comes with all necessary hardware and wiring.

\*Web Code: RDR

Part No.	*Mfr.	Description	1	10	100	Part No.	*Mfr.	Description	1	10	100
66181	JVP	DB9 M to RJ11 (6P6C)	\$2.49	\$2.25	\$1.95	66181	JVP	DB9 F to RJ45 (8P8C)	\$2.45	\$2.19	\$1.95
66191	JVP	DB9 M to RJ45 (8P8C)	2.75	2.49	2.25	2099681	+	DB15 F to RJ-11 (6P6C)	2.19	1.95	1.79
614977	GCE	DB9 M to RJ45 (8P8C)	2.75	2.49	2.25	66229	JVP	DB25 M to RJ11 (6P6C)	2.75	2.49	2.25
614985	GCE	DB9 F to RJ11 (4P4C)	1.95	1.75	1.59	66237	JVP	DB25 M to RJ45 (8P8C)	1.85	1.69	1.49
114738	JVP	DB9 F to RJ11 (6P4C)	2.35	2.09	1.89	615021	GCE	DB25 M to RJ45 (8P8C)	2.49	2.25	1.95
66203	JVP	DB9 F to RJ11 (6P6C)	2.75	2.49	2.25	204273	JVP	DB25F - RJ11 (6P4C)	.99	.89	.79
66212	JVP	DB9 F to RJ45 (8P8C)	2.95	2.65	2.39	66254	JVP	DB25 F to RJ45 (8P8C)	1.85	1.69	1.49

BOMAR

## EZ-RJ45 Category 5 & 6 Modular Plugs

Strip the wire and insert into the plug & pull out the wire on the other side. This ensures correct conductor order and uniformity in crimping. No wire bar and no wasted cable.

Part No.	Mfr. Part No.	Description	1	10	100	1000
158115	300568EZ	8P8C CAT5 EZ-Plug .....	\$1.65	\$1.49	\$1.35	\$1.19
2099278	300668EZ	8P8C CAT6 EZ-Plug .....	1.75	1.59	1.45	1.29

\*Web Code: FBB

JAMECO ValuePro

## Modular Couplers

\*Web Code: XAH

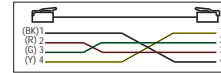


Fig. 1  
W: 1.5"  
H: 0.9"  
D: 0.7"

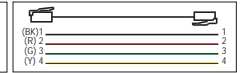


Fig. 2  
W: 1.7"  
H: 1.0"  
D: 0.9"

Style 1 Reverse wiring for telephone systems



Style 2 Straight wiring for networking/printer sharing



Part No.	Description	Fig.	1	10	100
71757	6P6C modular coupler, Style 1, RJ11	1	\$.95	\$.85	\$.75
135087	6P6C modular coupler, Style 2, RJ11	1	1.09	.99	.89
118501	8P8C modular coupler, Style 1, RJ45	1	1.75	1.55	1.39
135079	8P8C modular coupler, Style 2, RJ45	1	1.39	1.25	1.15
153023	8P8C modular coupler, Style 2 (for CAT 5) RJ45	2	7.95	7.15	6.45

## Keystone-Type RJ11 & RJ45 Jacks

Modular Punchdown Type

- CAT 5e classification
- Punchdown type wiring connections with color coding
- Size: 0.57"W x 1.23"D x 0.63"H

Part No.	*Mfr.	Description	Color	1	10	100
212944	JVP	6P6C (RJ11)	White	\$2.49	\$2.25	\$1.95
212951	JVP	8P8C (RJ45)	Blue	2.25	1.95	1.75
212944	JVP	8P8C (RJ45)	White	2.95	2.65	2.39

JAMECO ValuePro

## RJ45-Plug Color Caps (Boots)

- Round strain relief
- Order in multiples of 10

\*Web Code: JBG

Part No.	Color	10	100	500	1000
204410	Black	\$.19	\$.17	\$.15	\$.12
204353	Gray	.19	.17	.15	.12
204362	Blue	.19	.17	.15	.12

## Cisco Wall Jack DSL Filter

- Filters out DSL
- Dimension: 4.7" x 3.0"

Part No.	Description	Color	1	10
15077	6P4C (RJ11)	White	\$2.49	\$2.25

## RJ11 Retractable Cable

This RJ11 cable extends up to 8'. When you pack up, give it a tug and it retracts into its lightweight, rugged case like a windowshade. It's completely tangleproof.

Part No.	Product No.	1	5	25
233349	AC29908B	\$.99	\$.95	\$.89

## Web Enabled Catalog

Enter web codes online for additional product listings & specifications. Look for the web code box on the home page.

[www.Jameco.com/More](http://www.Jameco.com/More)

\* AMP = AMP | GCE = GC Electronics | JVP = Jameco ValuePro | KYC = Kycon | MOL = Molex | + Manufacturer Varies

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## Modular Jack Boxes



* Web Code: UAM			Pricing		
Part No.	Description	Fig.	1	10	100
103464	6P4C adhesive jack RJ11 (beige)	1	\$ .99	\$ .85	\$ .69
71984	6P6C adhesive jack RJ11 (beige)	1	1.19	1.05	.89
71651	8P8C adhesive jack RJ45 (beige)	1	1.29	1.15	.99
213032	8P8C adhesive jack RJ45 (single, white) (CAT 5e)	2	2.95	2.59	2.39
213049	8P8C adhesive jack RJ45 (dual, white) (CAT 5e)	3	3.95	3.59	3.25

## RJ45 (8P8C) Type Wall Plates

- Size: 2.8"W x 4.5"H
- RJ45 8P8C



* Web Code: RBH			Pricing		
Part No.	No. of ports	Color	1	10	100
636965	1	Almond	\$ .99	\$ .89	\$ .79
212978	1	White	.99	.89	.79
195565	3	Ivory	.99	.79	.59
637028	4	Almond	.99	.79	.59

## 8P8C In-Line Coupler

- Panel mount thickness: 0.062" nominal
- Housing: black polyphenylene oxide
- Terminals: 0.018" diameter phosphor bronze with 50µ" gold over nickel
- Snaps into 0.595" x 0.765" rectangular wall plate cut-outs



Part No.	Mfr.	Part No.	1	10	100
524445	AMP	555052-1	\$4.49	\$4.25	\$3.79

## Professional Modular Connector Crimping Tool

- 6mm and 12mm stripping guide
- Spring return action
- Crimp modular plugs without changing dies
- Crimps 10P10C, RJ45: 8P8C, RJ11 and RJ12: 6P6C, and 4P4C
- Insulated handles • Size: 8.2"L • Weight: 1.2 lbs.



Part No.	Mfr.	Part No.	1	10	25
181148	HT200		\$54.95	\$49.49	\$44.55

For more Hand Tools, see pages 150-153

## 17" Self-Grip/Wrap Velcro Straps

- Wrap around anything and sticks to itself for fast, easy bundling
- Bundle cords, cables, wires, pipes, tubing and trees (landscaping)
- Grip on one side, loop on back
- Eliminates plastic tie wraps and hardware • Reusable
- Size: 17"L x 1/2"W (cut to your length)
- Color: black
- 12 pieces in pack



Part No.	Mfr.	Part No.	1	10	20
2125325	Self-grip/wrap velcro		\$6.95	\$6.25	\$5.59

## Lite Cable Wraps

- Patented one end permanently attaches to the cable and the other end has a pull tab
- Made of the best quality hook and loop touch fastener tested for 10,000 closures with no loss of holding strength



10 per pack

Part No.	Description	1	10
700701	1/2"W x 8"L, black	\$9.95	\$8.95

## Round-Type Strain Relief Bushings

- UL approved nylon 66, 94V-2
- Used extensively for protecting cords and to prolong cord life
- Order in multiples of 10



Part No.	Cable Type	Length (in.)	10	100	1000
182351	SVI/SVT	.43	\$ .12	\$ .10	\$ .08
182369	SJ/SJT; 16 AWG	.58	.12	.10	.08

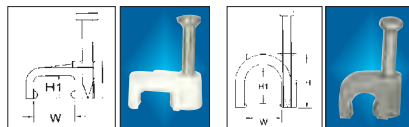
## 6' Wiring Duct & Cover

- Light gray • Lead free PVC
- 489230:
  - Wide finger slotted wiring duct
  - Standard mounting PC holes
  - Size: 1.75"W x 1.62"H
  - Sold in 6 foot lengths only



Part No.	Description	1	5
489230	Duct	\$36.95	\$32.95
489213	Cover	7.95	7.25

## Nail-In Cable Clips



- Material: Impact resistant PE • With nails inserted

For telephone cords; white Order in multiples of 100

Part No.	Cross Ref. No.	W" x H" x H1"	100	1000
190828	NF1.2	.24 x .21 x .15	\$ .009	\$ .008
190836	NF1.6	.31 x .31 x .20	.009	.008

For general round cables; gray Order in multiples of 100

Part No.	Cross Ref. No.	W" x H" x H1"	100	1000
190861	NCO.35N	.14 x .23 x .15	\$ .009	\$ .008
190887	NC1N	.24 x .35 x .26	.009	.008
190895	NC2N	.31 x .45 x .34	.009	.008
190908	NC3N	.39 x .53 x .41	.009	.008

## 5' Low Profile Wire Conduit

- No more tripping or running over cables and cords. This low profile conduit hides cables/ cords and provides cable management at the same time.
- Simply install on any wall or floor with its double-sided tape.
- 5' long • Black



Part No.	Description	1	5
2112479	Low profile conduit	\$19.95	\$17.95

## 3" to 13" Nylon Cable Ties

Standard

- Cable ties made from UL 70561 approved Nylon 66
- Temperature range: -40°C to +85°C
- Color: natural
- Flammability rating: UL 94V-2

\* Web Code: QAV

Part No.	Size (L" x W")	Tensile Strength	100	1000
70561	3.0 x 0.10	18 lbs.	\$ .04	\$ .03
126544	4.0 x 0.10	18 lbs.	.03	.02
182677	4.75 x 0.13	18 lbs.	.04	.03
182651	5.5 x 0.13	18 lbs.	.11	.10
139150	8.0 x 0.10	18 lbs.	.04	.03
182669	8.0 x 0.13	18 lbs.	.04	.03
182685	8.0 x 0.18	18 lbs.	.04	.03
70907	6.0 x 0.10	40 lbs.	.08	.07
190756	10.0 x 0.14	40 lbs.	.09	.07
190772	11.0 x 0.19	40 lbs.	.09	.07
190764	13.0 x 0.14	40 lbs.	.10	.08

## Weather Resistant (black)

- Contains Carbonate A for greater resistance to ultraviolet rays in outdoor use • UL94V-2

104142  
UV Resistant  
Order in multiples of 100

Part No.	Size (L" x W")	Tensile Strength	100	1000
139125	3.0 x 0.10	18 lbs.	\$ .03	\$ .01
104142	4.0 x 0.10	18 lbs.	.05	.03
104134	6.0 x 0.10	40 lbs.	.08	.05
190782	8.0 x 0.13	40 lbs.	.11	.08
190800	10.0 x 0.14	40 lbs.	.18	.13
190802	13.0 x 0.14	40 lbs.	.19	.17

## Cable Tie Assortment Kits

- Tensile strength: 18-50 lbs.
- 145701: 1000 pcs. (4"L); 10 colors
- 150412: 850 pcs. total 500 pcs. (4"L); 300 pcs. (8"L); 50 pcs. (11"L), 5 colors

Part No.	Wt. (lbs.)	1	10	25
145701	0.7	\$9.95	\$8.95	\$7.95
150412	1.7	17.95	16.95	15.95

## Universal Cable Tie Tool

- 0.1" - 0.19" width cable ties
- Tension adjustable
- Spring return action • Metal



Part No.	Product No.	1	5	10
182298	0302TG-7	\$19.95	\$17.95	\$15.95

## Nylon Cable ID Markers

- Nylon cable tie ID marker (white)
- Order in multiples of 10

Part No.	Size	10	100
182705	1.5"L x 0.75"W x .02"T	\$ .09	\$ .07
135175	2.0"L x 0.75"W x .02"T	.12	.10

## 3M Wire Marker Tape Dispensers

Dispenser with ten refillable compartments for marking wire with numbered or colored tape.

- Self-adhesive tapes
- Size: (tape) 96"L x 0.25"W



- 159231: 1 roll each numbered 0 to 9
- 2099657: 1 roll each black, blue, brown, green, gray, orange, red, violet, white and yellow

Part No.	Mfr.	Part No.	1	10
159231	STD-0-9		\$42.95	\$38.95
2099657	STD-C		42.95	38.95



## Cable Tie Mounts & Cable Clamps

- Tie mount and screw tab cable clamps
- Material: UL approved nylon 66, 94V-2



\*Web Code: FBE



Part No.	Cross Ref. No.	Fig.	Description	Order in multiples of 10	10	100	1000
182942	0505HC-101S	1	4-way cable tie mount, self-adhesive, .75"D		\$ .15	\$ .13	\$ .12
171214	HC-100	1	4-way cable tie mount, self-adhesive, use w/ 0.1"W max., 0.5" square		.16	.14	.13
71408	HC-101	1	4-way cable tie mount, self-adhesive, use w/ 0.1"W max., 0.9" square		.19	.17	.15
71395	HC-102	1	4-way cable tie mount, self-adhesive, use w/ 0.2"W max., 1.1" square		.25	.23	.19
71386	HC-103	1	4-way cable tie mount, self-adhesive, use w/ 0.4"W max., 1.1" square		.33	.29	.27
70595	HC-0	2	4-way cable tie, screw type, use w/ 0.2"W max., 0.8"L x 0.4"W		.19	.17	.15
182301	0510HC-2	3	Cable tie mount, 1/4" screw hole, 0.5"D		.17	.15	.14
173761	HC-1	3	Cable tie, saddle type, 0.6"L x 0.4"W		.10	.09	.08
182318	0519ATC-17	4	2-way adjustable tie mount, #6 flat head screw, 0.7"D		.25	.22	.19
182376	0519ATC-22	4	2-way adjustable tie mount, #6 flat head screw, 0.9"D		.19	.17	.15
182334	0520FC-1	5	Cable tie mount, self-adhesive, 0.1"D		.21	.19	.16
173729	UC0.5	6	Cable clamp for 3/16" cable		.08	.06	.04
173737	UC1	6	Cable clamp for 1/4" cable		.11	.10	.09
71062	MCV-100R	7	Cable ID tie (4"L x 0.1"W) with tab (.98"W x .31"H)		.29	.27	.23



## FLEXO® Braided Sleeve

- Color: black
- Length: 25 feet
- Cut and abrasion resistant
- Maintains properties across wide temperature range
- UV resistant

### Flexo® Clean-Cut Braided

- Dense braid structure provides fuller coverage
- Fray resistant when cut w/ scissors

Part No.	Mfr. Part No.	Min/Max Flex (in.)	Inside Dia. (in.)	Outside Dia. (in.)	1	5
162157	CCP0.25BK25	5/32 - 7/16	0.250	0.440	\$15.95	\$14.49
162165	CCP0.50BK25	1/4 - 3/4	0.500	0.750	17.95	15.95

### Flexo® Pet Braided

- Braided from 10 mil polyethylene terephthalate monofilament yarns
- UL recognized component
- Conforms to FMVSS 302
- High tensile strength

Part No.	Mfr. Part No.	Min/Max Flex (in.)	Inside Dia. (in.)	Outside Dia. (in.)	1	5
693679	PTN0.25BK25	1/8 - 7/16	0.250	0.440	\$8.95	\$7.95
693687	PTN0.38BK25	3/16 - 5/8	0.375	0.425	11.95	10.95
695383	PTN0.50BK25	1/4 - 3/4	0.500	0.550	11.95	10.95



## Flat & Tubular Tinned Copper Braid

These braids are used for shielding cables, ground straps, and as a protective braid covering hoses and tubes.

- Woven wire construction
- 100 ft. spools
- 95% minimum shield coverage
- QQ-W-343 & ASTM B-33 Compliant

Part No.	Description	1	5	25
2124171	1/8" x .02" flat, 72 x 36 strand, approx. 18 AWG	\$36.95	\$33.95	\$29.95
2124189	1/4" x .03" flat, 168 x 36 strand, approx. 14 AWG	59.95	54.95	49.95
2124154	1/4" tubular, 384 x 36 strand, approx. 10 AWG	89.95	79.95	72.95
2124162	3/8" tubular, 384 x 36 strand, approx. 10 AWG	99.95	89.95	79.95



## Heat Shrink Tubing Kits

A selection of heat shrinkable flexible polyolefin tubing that offers an outstanding balance of electrical, physical and chemical properties for a wide variety of industrial and military applications. Rated for 275°F (135°C).

2095971		2095963		285481		2095947		645976	
Size	Pieces	Size	Pieces	Size	Pieces	Size	Pieces	Size	Pieces
1/8"	12	1/16"	56	3/16"	30	1/16"	56	3/32"	35
1/4"	10	3/32"	35	1/4"	28	3/32"	35	1/8"	28
3/8"	6	1/8"	28	3/8"	20	1/8"	28	3/16"	21
1/2"	4	3/16"	18	1/2"	14	3/16"	18	1/4"	21
3/4"	3	1/4"	9	3/4"	6	1/4"	9	3/8"	14
1"	2	3/8"	8	1"	4	3/8"	8	1/2"	14

Part No.	Mfr.	Description	Pieces	Length	1	5
2095971	ValuePro	Black, dual wall, moisture resistant	37	4	\$24.95	\$22.49
2095963	ValuePro	Black	154	4	19.95	17.95
285481	3M	Black	102	6	65.95	58.95
2095947	ValuePro	Black/red/white/yellow/blue/green/clear	154	4	19.95	17.95
645976	3M	Black/red/white/yellow/blue/green/clear	133	6	65.95	58.95

2:1  
Shrink Ratio

\*Web Code: HST



## Polyolefin Heat Shrink Tubing

### FIT221/FIT221B Series

Insulation from environment and resistance from water, fungus, and UV light. Use for insulation and repair, wire and cable harnessing/bundling, cable and connector protection, and wire and tubing splicing and connecting.

- Operating temp: -55°C to 135°C
- Shrinkage ratio: 2:1 @ 121°C
- Dielectric strength: 500V/mil (197kV/cm)
- Volume resistivity: 10<sup>14</sup>Ω-cm

### Clear (4-foot pieces)

Part No.	Mfr. Part No.	Before/After ID (in.)	1	10	100
419119	FIT221-3/64	.046/.023	\$ .89	\$ .79	\$ .69
419135	FIT221-1/16	.063/.031	1.09	.95	.85
419178	FIT221-1/8	.125/.062	1.29	1.19	1.09
419215	FIT221-1/4	.250/.125	2.25	1.95	1.75
419231	FIT221-3/8	.375/.187	1.95	1.79	1.59
419274	FIT221-3/4	.750/.375	2.75	2.59	2.39
2113682	TT-100	1.00/.500	3.95	3.69	3.29

### Black (4-foot pieces)

419101	FIT221B-3/64	.046/.023	\$ .89	\$ .79	\$ .69
419127	FIT221B-1/16	.063/.031	.99	.89	.79
419143	FIT221B-3/32	.093/.046	.99	.89	.79
419160	FIT221B-1/8	.125/.062	.99	.89	.79
419186	FIT221B-3/16	.187/.093	1.25	1.09	.99
419207	FIT221B-1/4	.250/.125	1.85	1.69	1.49
419223	FIT221B-3/8	.375/.187	1.95	1.75	1.59
419240	FIT221B-1/2	.500/.250	1.95	1.85	1.69

### Black (6-inch pieces)

Part No.	Mfr. Part No.	Before/After ID (in.)	Bags of	1	5
419400	FIT221B-1/16	.063/.031	36	\$14.49	\$12.95
419549	FIT221B-3/4	.750/.375	12	15.95	14.49

## Heat Shrink Tubing

- 2:1 uniform shrink ratio
- Shrink temp.: 90°C
- Color: black

### Polyolefin Tubing

- Only sold in 10' & 100' lengths

Part No.	Dia. Before (mm)	Length (ft.)	1	10
644834	0.12" (3)	10	\$1.95	\$1.75
644851	0.12" (3)	100	12.65	11.49
644869	0.16" (4)	10	2.15	1.95
644877	0.16" (4)	100	19.95	17.95
644906	0.20" (5)	10	2.45	2.19
644914	0.20" (5)	100	21.45	19.29
644931	0.24" (6)	10	2.55	2.29
644949	0.24" (6)	100	21.75	19.59
644957	0.31" (8)	10	2.95	2.65
644965	0.31" (8)	100	31.95	28.75
644973	0.43" (11)	10	3.95	3.55
644981	0.43" (11)	100	35.95	32.95
644990	0.59" (15)	10	4.95	4.49

### Polyolefin Flexible Tubing

- Dielectric strength: 1300V
- Temp. range: -45°C to +125°C
- Flame retardant
- Precut 39" length (1 meter)

Part No.	Dia. Before (mm)	1	10	100
71871	.079" (2.0)	\$ .55	\$ .49	\$ .45
71280	.098" (2.5)	.95	.85	.75
72063	.197" (5.0)	.79	.69	.65

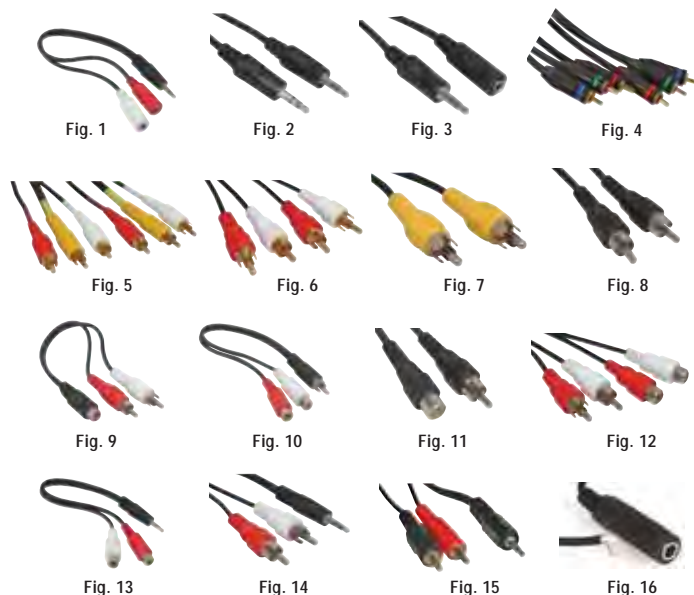
\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



JAMECO ValuePro

## Audio/Video Cables and Adapters

\* Web Code: QAP



### 3.5mm Audio Splitter and Extension/Patch Cables

Part No.	*Mfr.	Fig.	Description	1	10	100
228398	JVP	1	6' 3.5mm stereo Y-cable F jacks (2) to M plug	\$2.35	\$2.09	\$1.89
228494	JVP	2	6' 3.5mm stereo M to M plug (black)	1.45	1.29	1.15
2128147	JVP	2	3' retractable 3.5mm stereo M to M plug, 4" when coiled	3.95	3.55	3.19
228515	JVP	3	6' 3.5mm stereo M plug to F jack (black)	2.35	2.09	1.89
228507	JVP	2	12' 3.5mm stereo M to M plug (black)	1.95	1.75	1.59
228523	JVP	3	12' 3.5mm stereo M plug to F jack (black)	2.49	2.25	1.95
2077538	+	3	20' 3.5mm stereo M plug to F jack (black)	2.75	2.49	2.25

\* Web Code: JAU

## Component Video and Audio Cable

- Low-loss 75Ω oxygen-free copper center conductors and foam dielectric provide maximum signal transfer bandwidth for improved picture quality and performance
- Corrosion resistant, precise 24k gold-plated connectors ensure long lasting quality
- Fully molded color coded connectors attached to an ultra-flexible PVC jacket provide excellent strain relief, easy installation, and identification
- 100%, 0.012mm aluminum-polyester foil shielding and spiral-wound copper-braid shielding provides clear, noise-free, vivid picture quality



Part No.	Description	1	10	25
229403	6' component video RGB and stereo audio cable	\$9.95	\$8.95	\$7.95

## Audio/Video BNC to RCA Cables & Adapter

Fully molded nickel connectors. Used for displays that require a single BNC connection from a PAL/NTSC video source.

\* Web Code: QAP

Part No.	Description	1	10	25
1945057	3' BNC to BNC video cable w/ BNC to RCA male adapter	\$3.95	\$3.49	\$2.95
683059	6' BNC to RCA cable (RG-59)	3.95	3.49	2.95



## RGB/VGA Video Cables

- 75Ω coaxial cable
- Pin 1 red, pin 2 green, pin 3 blue, pin 14 white/black vertical, pin 13 gray horizontal
- 5 BNCs to HDDB15-pin male

Part No.	Description	1	10	25
73648	6' cable	\$9.95	\$8.95	\$7.95
118068	10' cable	10.95	9.95	8.95



## S-VHS Cables and Adapters

Low-loss fully shielded Super-VHS cables, 4-contact mini DIN plus S-VHS cable and dual-RCA plug stereo cables.

- Fully-molded color coded gold RCA connectors
- Flexible black PVC jacket
- Applications: home theaters, DSS receivers, Super-VHS VCRs, camcorders & DVD players

JAMECO EXCLUSIVE

\* Web Code: TBL

Part No.	Description	1	10	100
683075	S-video male plug to RCA video female jack (blue)	\$ .99	\$ .85	\$ .69
228591	6' S-VHS video cable, gold plated	2.15	1.95	1.79
2120487	6' S-VHS video cable, silver plated	1.95	1.75	1.59



## Audio/Video BNC to RCA Cables & Adapter

Fully molded nickel connectors. Used for displays that require a single BNC connection from a PAL/NTSC video source.

\* Web Code: QAP

Part No.	Description	1	10	25
1945057	3' BNC to BNC video cable w/ BNC to RCA male adapter	\$3.95	\$3.49	\$2.95
683059	6' BNC to RCA cable (RG-59)	3.95	3.49	2.95



## RGB/VGA Video Cables

- 75Ω coaxial cable
- Pin 1 red, pin 2 green, pin 3 blue, pin 14 white/black vertical, pin 13 gray horizontal
- 5 BNCs to HDDB15-pin male

Part No.	Description	1	10	25
73648	6' cable	\$9.95	\$8.95	\$7.95
118068	10' cable	10.95	9.95	8.95



## DVI Cables

Digital Video Interface (DVI) provides a high-speed digital connection for visual data types that are display technology independent. The DVI specifications meet the needs of all segments of the PC industry and will enable these different segments to unite around one monitor interface standard.

\* Web Code: EEM

Part No.	Description	1	10	25
320346	Single link 2 meters	\$3.95	\$3.49	\$3.15
1944265	Dual link 3 meters	13.95	12.49	11.25



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\* JVP = Jameco ValuePro | LKG = LKG Industries | + Manufacturer Varies

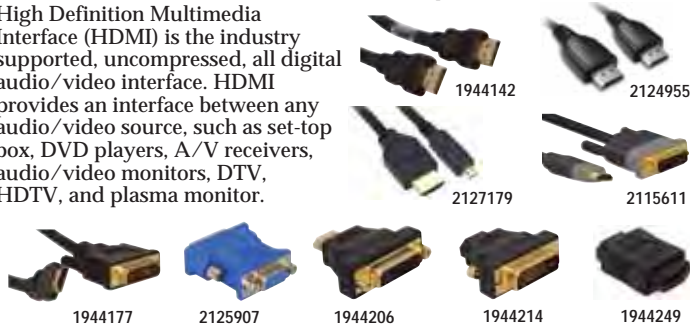
RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

JAMECO ValuePro

## HDMI Cables & Adapters

\*Web Code: DEM

High Definition Multimedia Interface (HDMI) is the industry supported, uncompressed, all digital audio/video interface. HDMI provides an interface between any audio/video source, such as set-top box, DVD players, A/V receivers, audio/video monitors, DTV, HDTV, and plasma monitor.



Part No.	Product No.	Description	1	5	25
1944142	10HM-01128-01	HDMI male to male, 1 meter	\$10.95	\$9.95	\$8.95
1944151	10HM-01128-02	HDMI male to male, 2 meters	12.95	11.49	9.95
2124955	CD1GG300	HDMI type A, m/m, V1.3, 10'	14.95	13.95	12.95
1944169	10HM-01128-05	HDMI male to male, 5 meters	17.95	15.95	14.49
2127179	CH15180G	HDMI type A to micro type D, 6'm/m	11.95	10.95	9.95
2115611	AV22400B-12	HDMI M to DVI M 12 feet	14.95	13.49	11.95
1944177	10HM-15128-01	Male to DVI-D single link, 1 meter	9.95	8.95	7.95
1944185	10HM-15128-02	Male to DVI-D single link, 2 meters	11.95	10.95	9.95
1944193	10HM-15128-05	Male to DVI-D single link, 5 meters	16.95	14.95	12.95
2125907	F27334-1	DVI-A M to VGA adapter	6.95	5.95	4.95
1944206	30HM-15228-MO	HDMI M to DVI F video adapter	8.95	7.95	6.95
1944214	30HM-15328-MO	HDMI F to DVI M video adapter	7.95	7.49	6.95
1944249	30HM-01400	F to F HDMI gender changer/coupler	7.95	7.25	6.49

## Stereo, Phone, Audio Plugs & Jacks

\*Web Code: AJS

Part No.	Manufacturer	Product No.	Fig.	Description	Dimensions (mm)	1	10	100
297297	Switchcraft	850X	1	2.5mm mono phone, audio plug, black plastic	25.8L x 6.35 Dia.	\$3.49	\$3.25	\$3.08
281869	Switchcraft	750	2	3.5mm mono audio plug, plastic	41.5L x 5.7 ID	3.79	3.59	3.39
281754	Switchcraft	250	3	1/4" mono phone audio plug, plastic	73.7L x 7.6 ID	3.45	3.09	2.79
281762	Switchcraft	267	4	1/4" commercial phone plug, black plastic	73.7L x 7.6 ID	4.49	3.95	3.75
281789	Switchcraft	297	5	1/4" stereo phone audio plug, metal	73.7L x 7.6 ID	4.95	4.49	3.95
281771	Switchcraft	280	6	1/4" mono phone audio plug, metal	73.7L x 7.6 ID	4.49	3.69	3.25
229876	ValuePro	JR0101BLK	7	RCA plug, metal (black stripes)	61.7L x 7.0 ID	1.95	1.75	1.49
229868	ValuePro	JR0101R	7	RCA plug, metal (red stripes)	61.7L x 7.0 ID	1.95	1.75	1.49
230287	ValuePro	JR0101Y	8	RCA plug, yellow housing, gold plated	61.7L x 7.0 ID	1.25	1.09	.99
229921	ValuePro	JR1625BLK	9	RCA plug, plastic, black (5 pk)	51.5L x 5.0 ID	1.45	1.29	1.15
229930	ValuePro	JR1625R	10	RCA plug, plastic, red (5 pk)	51.5L x 5.0 ID	1.45	1.29	1.15
281800	Switchcraft	3502	11	RCA phone audio plug, metal	33.8L x 5.0 ID	1.95	1.75	1.59
2125579	Switchcraft	3502-1	12	RCA phone audio plug, nickel	34.5L x 7.2ID	1.95	1.75	1.59
281818	Switchcraft	3502A	12	RCA phono audio plug, nickel	42.4L x 7.3 ID	2.25	1.95	1.75
2129975	Switchcraft	MDSL2A	13	2.5mm mono phone audio jack, threaded	12.6H x 8.7L x 7.8W	2.39	2.19	1.99
2095437	ValuePro	J355W	13	3.5mm stereo audio jack	10.1H x 8.4W x 17.6L	1.29	1.09	.89
281834	Switchcraft	41	14	3.5mm audio jack, panel mount	7.8L x 5.9 Dia.	1.85	1.69	1.49
568392	Switchcraft	35RAPC4BH3	15	3.5mm stereo jack, rt. angle horz., threaded	6.0H x 11.0W x 8.0L	1.49	1.35	1.19
1766180	Switchcraft	35RAPC4BHN2	15	3.5mm stereo jack, rt. angle horz., non-threaded	5.0H x 12.0W x 15.0L	1.69	1.49	1.35
2081334	Shogyo	354-3PY	15	3.5mm mono jack, rt. angle horz., non-threaded	6.1H x 11.9W x 12.0L	1.09	.89	.69
2100291	Shogyo	354-PY (CT)	16	3.5mm mono jack, rt. angle horz., threaded	6.45H x 11.7W x 14.3L	1.19	.99	.79
2081772	Kycon	ST3120-3-WHT	17	3.5mm stereo jack, rt. angle horz., non-threaded	10.45H x 12.0W x 6.8L	.49	.45	.39
1766121	Switchcraft	35RAPC2AV	18	3.5mm mono jack, rt. angle ver., threaded	11.6H x 7.7W x 14.0L	1.25	1.09	.95
1766198	Switchcraft	35RAPC4BV4	18	3.5mm stereo jack, rt. angle ver., threaded	12.3H x 8.1W x 14.0L	1.75	1.59	1.45
2095373	Various	HTJ-035-22D	19	3.5mm mono jack, rt. angle horz., non-threaded, blk.	10.45H x 10.0W x 14.0L	.89	.79	.69
2081238	Shogyo	SCJ330	13	3.5mm mono audio jack	10.6H x 9.0W x 21.7L	1.95	1.75	1.49
281738	Switchcraft	11	20	1/4" mono phone audio jack	12.8L x 9.1 Dia.	1.85	1.69	1.49
296892	Switchcraft	12A	21	1/4" mono phone audio jack, metal	31.7L x 9.4 Dia.	1.95	1.79	1.69
296905	Switchcraft	13B	21	1/4" mono phone audio jack, metal	30.6L x 9.4 Dia.	3.49	3.29	3.09
281746	Switchcraft	12B	21	1/4" stereo phone audio jack	14.7L x 9.1 Dia.	1.95	1.79	1.69
2120209	ValuePro	STJ-.25	22	1/4" stereo phone audio jack, shielded, threaded	20.8L x 16.7W x 16.5H	1.69	1.49	1.35
220581	ValuePro	KY-006-1(W)	23	RCA jack, PCB mount, white	11.2H x 14.2W x 12.2L	.59	.55	.49
220556	ValuePro	KY-006-1(R)	23	RCA jack, PCB mount, red	11.2H x 14.2W x 12.2L	.65	.59	.55
220572	ValuePro	KY-006-1(B)	23	RCA jack, PCB mount, black	11.2H x 14.2W x 12.2L	.39	.35	.25
220564	ValuePro	KY-006-1(Y)	23	RCA jack, PCB mount, yellow	11.2H x 14.2W x 12.2L	.39	.35	.29
2076359	Various	AJ842G3	24	RCA jack, PCB mount, rt. angle, red/white/yellow (3)	40.6H x 22.9W x 21.6L	.59	.55	.49
2076332	Various	SCJ-0358-YLW	25	RCA jack, PCB mount, yellow	9.9H x 19.1W x 13.0L	.49	.45	.39
169502	Various	SCJ-0358-BLK-R	25	RCA jack, PCB mount, black	10.2H x 21.6W x 12.7L	.55	.49	.45
319249	Velleman	CA066	26	RCA jack, 2 pair stereo, panel mount, red/white	73.7H x 12.2W x 24.9L	.95	.85	.75
159485	Various	CS7021-DN-BLK-R	27	RCA jack, panel mount, black	21.3W x 9.7H	.95	.85	.75
172340	Various	CS7021-DN-RD-R	27	RCA jack, panel mount, red	21.3W x 9.7H	.85	.75	.69
2123451	Velleman	LSC2	28	Speaker terminal board, 2-pos, pushbutton	50.8H x 50.8W x 31.8D	1.59	1.45	1.39
2123469	GC/Waldom	33-1404	29	Speaker terminal board, 4-pos, pushbutton	76.2H x 25.4W x 31.8D	1.95	1.79	1.69

† Closed circuit



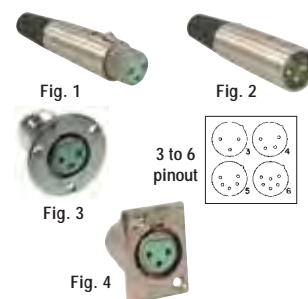
Interconnects

Microphone (XLR) Connectors & Audio Adapters on next page

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## Microphone (XLR) Connectors

Part No.	Manufacturer	Product No.	Fig.	Description	Dimensions (mm)	★ Web Code: ABV		
						1	10	25
277026	Switchcraft	A3F	1	3-pin female, metal	82.5 x 5.3 Dia.	\$5.25	\$4.75	\$4.25
281560	Switchcraft	A3M	2	3-pin male, metal	70.3 x 5.3 Dia.	4.55	3.95	3.65
297422	Switchcraft	C3F	3	3-pin female, metal, panel mount	36.9 x 36.5 Dia.	7.49	6.95	6.75
281640	Switchcraft	D3F	4	3-pin female, metal, panel mount	27.0W x 36.3H X 30.6D	6.95	5.95	4.95
281623	Switchcraft	A6F	1	6-pin female, metal	80.2 x 4.6 Dia.	15.49	14.95	13.95
319011	ValuePro	250-710	2	3-pin male, metal	70.6L x 7.31D	2.95	2.65	2.39
319003	ValuePro	250-720	1	3-pin female, metal	81.5L x 7.43D	2.25	1.95	1.75
319038	ValuePro	250-705	4	3-pin female, metal, panel mount	26.2W x 35.5H x 35.9D	3.45	2.95	2.65



## Audio Adapters

Part No.	Manufacturer	Cross Ref. No.	Description	★ Web Code: KBQ		
				1	10	100
309665	ValuePro	251-175	3.5mm stereo F jack to 3.5mm mono M plug	.35	.29	.25
2115637	Belkin	F8V211TT	1/4" stereo F jack to 3.5mm stereo M plug	.69	.59	.55
228283	ValuePro	251-120	RCA F jack to mono 1/4" M plug	.69	.59	.55
228267	ValuePro	251-116	RCA F to F jack coupler, gold plated	.59	.55	.49
2115629	Belkin	F8V210TT	RCA F to F jack coupler, silver plated	.55	.49	.45



## AMP CPC Contacts

### Type III+ Snap-In Crimp Pins w/ Retention Spring

- Finish:
  - A: 30μ" gold over nickel
  - B: 15μ" gold over nickel
  - C: Tin-lead
- Crimp type except \*P/N 526424 (solder type)
- Contact body - brass or phosphor bronze

Part No.	Mfr. P/N	AWG	Finish	Type	1	10
526441	1-66361-1	18-14	A	Pin	\$.75	\$.65
526424	66180-1	18-16	A	Pin*	.85	.75
526432	66181-1	18-16	A	Socket	1.19	.99
526459	66103-3	24-20	B	Pin	.59	.49
526563	1-66103-5	24-20	C	Pin	.35	.32
526361	1-66103-7	24-20	A	Pin	.69	.59
526379	66105-3	24-20	B	Socket	.59	.55
526504	1-66105-6	24-20	C	Socket	.49	.45

### Size 20DF Contacts

- Contact body: brass
- Finish: A: 30μ" gold over nickel; B: gold flash over nickel

Part No.	Mfr. P/N	AWG	Finish	Type	Order in multiples of 10	
					10	100
223221	1-66505-0	28-24	B	Socket†	\$.19	\$.15
223247	745253-6	26-22	A	Socket†	.19	.15
223298	66504-9	24-20	A	Socket	.19	.15
223255	1-66504-0	24-20	B	Socket	.19	.15

† With insulation support

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## AMP CPC Circular Plastic Connectors

### Series 1 — Standard density, signal and low-current applications

- Accepts type III+; high-current type II and subminiature coax contacts
- Voltage rating: 600V (UL)



### Receptacles

Part No.	Mfr. P/N	Size/Pos	Gender	1	10
495091	206429-1	11-4	Reverse	\$2.89	\$2.69
495218	206430-1	11-4	Reverse	2.09	1.89
495162	206061-1	11-4	Standard	2.25	1.95
495293	211401-1	13-7	Standard	4.49	4.19
421382	206036-1	17-16	Standard	2.59	2.35
495146	206043-1	17-14	Reverse	2.59	2.29

### Plugs

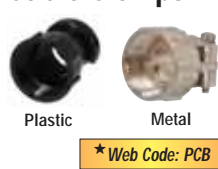
Part No.	Mfr. P/N	Size/Pos.	Gender	1	10
495322	206037-1	17-16	Standard	\$3.25	\$2.95
495031	206044-1	17-14	Reverse	3.25	2.95
495103	206708-1	13-9	Standard	2.95	2.65
421374	211399-1	13-7	Standard	3.49	2.95
495082	206060-1	11-4	Standard	2.79	2.49

## AMP Circular Cable Clamps

Provides strain relief and can be used in all series receptacles and plugs.

- Material: thermoplastic black, UL94V-0 rated (plastic); zinc alloy (metal)

Part No.	Mfr. P/N	Material	Shell Size	Cable O.D.(max.)	★ Web Code: PCB	
					1	10
494039	206062-1	Plastic	11	.329"	\$3.75	\$3.35
494063	206070-1	Plastic	17	.453"	3.95	3.49
494055	206966-1	Plastic	13	.453"	3.75	3.35
494119	208945-7	Metal	22	.750"	9.95	9.49



## AMP Extraction Tool

- Works with general contacts of CPC, multimate and MATE-N-LOCK II contacts

Part No.	Mfr. Part No.	1	10
841838	305183	\$16.49	\$14.49

## D-Sub Pin Insertion/Extraction Tools

- 19094/527582/223335: Plastic body; metal tips
- 223327: Handle with .050" hex wrench and interchangeable tips

Part No.	Mfr.	Product No.	Contact Size	1	10
19094	ValuePro	500-200	—	\$3.95	\$3.49
527582	AMP	91067-1	22	6.79	6.29
223335	AMP	91067-2	20DM/DF	7.49	6.75
223327	AMP	91285-1	HD-20	17.95	16.95

## D-Sub Crimping Tool

- Heavy-duty metal tool with cutter and insulated handles
- For computer pins & sockets, D-sub 26-28 AWG wire; butt-insulated connectors, 22-26 AWG wire; telephone spade lugs, 22-26 AWG wire and non-insulated connectors, 20-22 AWG & 14-18 AWG
- Coiled spring return
- Size: 7.3"L x 1.5"W

Part No.	Mfr. Part No.	1	5	25
99443	HT202A	\$8.95	\$7.95	\$6.95

More Tools on pages 149-154

## AMP AMPLIMITE™ .050" Series 2 Type B Header

- Right angle plug
- Housing: PBT black
- Cap shields: zinc, nickel over copper
- Contacts: phosphor bronze, 0.76μm gold in contact area, tin in solder area

Part No.	Mfr. Part No.	Positions	1	5
749417	2-5174225-5	68	\$24.95	\$22.95



## D-Subminiature Connectors

### Right Angle PCB Mount

★ Web Code: FAN  
Metal .318" Setback – Tin plated short style



\* Order in multiples of 10

Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
1952839	Foxconn	D-SUB-9M†	9	M	\$.55	\$.45	\$.35
104943	ValuePro	DB9P318R	9	M	\$.75	.65	.55
614441	AMP	747840-4†	9	M	1.49	1.35	1.19
104952	ValuePro	DB9S318R	9	F	.75	.65	.55
614504	AMP	747844-4†	9	F	2.25	1.95	1.75
71124	ValuePro	DA15P318R†	15	M	.69	.59	.49
71125	ValuePro	DA15P318R	15	M	.79	.69	.59
168743	ValuePro	HDDB15S318*	15	M	.49	.45	.39
77956	ValuePro	DA15S318	15	F	.79	.69	.59
1952273	Kycon	HDDSUB-15S†*	15	F	*	.19	.15
71466	ValuePro	HDDB15S318R*	15	F	.89	.79	.69
614539	AMP	747845-4†	15	F	1.75	1.55	1.39
15150	ValuePro	DB25P318R	25	M	.75	.65	.55
265439	Various	DSUB-25F	25	F	.75	.65	.55
15182	ValuePro	DB25S318R	25	F	.85	.75	.65
614141	AMP	745783-4	25	F	1.95	1.75	1.59
71706	ValuePro	DC37P318†	37	M	1.15	.95	.89
78183	ValuePro	DC37S318R†	37	F	1.29	1.15	.99

\* High Density † Without female jack screws (P/N 172603, pg 64)

### Metal Solder-Cup

★ Web Code: EAB



Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
15748	ValuePro	1001-9P-RR	9	M	\$.65	\$.55	\$.45
222990	AMP	747904-2	9	M	2.49	2.25	1.95
222957	AMP	747904-4†	9	M	1.49	1.35	1.19
15771	ValuePro	500-109	9	F	.65	.55	.45
2125510	Amphenol	DB9S-SFJ††	9	F	.99	.85	.75
223052	AMP	747905-2	9	F	2.49	2.25	1.95
15035	ValuePro	1001-15P-RR	15	M	.75	.59	.49
15078	ValuePro	1002-15P-RR*	15	M	.99	.79	.65
15052	ValuePro	1001-15S-RR	15	F	.75	.59	.49
164823	ValuePro	1002-15S-RR*	15	F	.99	.79	.65
223061	AMP	747909-2	15	F	.99	.89	.79
15115	ValuePro	1001-25P-RR	25	M	1.09	.89	.79
223010	AMP	747912-2	25	M	3.49	3.25	2.95
222973	AMP	747912-4†	25	M	1.95	1.75	1.59
15157	ValuePro	500-125	25	F	1.09	.89	.79
223079	AMP	747913-2	25	F	3.95	3.75	3.39
223044	AMP	747913-4†	25	F	.99	.89	.79
203799	ValuePro	1002-26P*	26	M	.85	.69	.55
203782	ValuePro	1002-26S-RR*	26	F	.29	.25	.19
639630	Amphenol	EDC37P	37	M	.49	.45	.39
15473	ValuePro	1002-37P-RR	37	M	1.35	1.15	.95
222981	AMP	747916-4†	37	M	.99	.89	.79
482724	Amphenol	EDC37S	37	F	.99	.89	.79
15500	ValuePro	GC028-RR	37	F	1.35	1.15	.95
223087	AMP	747917-2	37	F	.99	.89	.79
482732	Amphenol	EDD50P	50	M	.29	.25	.19
15676	ValuePro	GC029-RR	50	M	1.95	1.69	1.49
482741	Amphenol	EDD50S	50	F	.49	.45	.39
15691	ValuePro	GC030	50	F	.99	.89	.79

\* High Density † Zinc plated shell †† With female jack screws

### Right Angle PCB Mount

Metal .590" Set Back – Tin plated long style

★ Web Code: HAN



• Current rating: 1A

Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
104970	ValuePro	DB9P590R	9	M	\$.95	\$.85	\$.75
104978	ValuePro	DB9S590R	9	F	.95	.85	.75
104985	Astron	DA15P590†	15	M	.29	.25	.19
104993	ValuePro	DA15S590†	15	F	.29	.25	.19
104994	ValuePro	DA15S590R†	15	F	1.29	1.15	.95
189624	Various	DB25P590††	25	M	.29	.25	.19
105006	ValuePro	DB25P590R	25	M	.99	.89	.79
105013	ValuePro	DB25S590†	25	F	.99	.89	.79
105014	ValuePro	DB25S590R†	25	F	1.29	1.15	.95

† Without female jack screws (P/N 172603, pg 64) †† Without board tabs

### Metal Straight PCB Mount

★ Web Code: SBK



Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
111692	ValuePro	DB9PPCBR	9	M	\$.59	\$.49	\$.39
15781	ValuePro	DB9SPCBR	9	F	.59	.49	.39
176760	ValuePro	DA15PPCB	15	M	.69	.59	.49
176752	ValuePro	DA15SPCBR	15	F	.69	.59	.49
15123	ValuePro	DB25PPCBR	25	M	.79	.69	.59
2095091	Amphenol	EDB25ST	25	F	.29	.25	.19
15165	ValuePro	DB25SPCB	25	F	.89	.79	.69
180021	ValuePro	DC37SPCB	37	F	1.35	1.19	.99

### Crimp-Type

★ Web Code: UBR



Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
73189	ValuePro	500-010	9	M	\$.49	\$.39	\$.35
222640	AMP	205204-1	9	M	1.15	.95	.85
73197	ValuePro	500-110	9	F	.55	.45	.35
222842	AMP	205203-3R	9	F	.85	.75	.65
222691	AMP	205203-1	9	F	1.09	.95	.75
73200	ValuePro	G37-15	15	M	.65	.59	.55
180882	ValuePro	1006-15P-RR*	15	M	.39	.35	.29
222703	AMP	205205-1R	15	M	.49	.45	.39
222658	AMP	205206-1	15	M	.65	.59	.55
73219	ValuePro	G1G125-RR	15	F	.65	.55	.45
180890	ValuePro	1006-15S*	15	F	.35	.29	.25
38789	ValuePro	500-027	25	M	.65	.55	.45
222818	AMP	207464-2R	25	M	.79	.65	.55
38771	ValuePro	500-127	25	F	.75	.69	.65

\* High Density

### IDC Ribbon Cable

- Contact material: phosphor bronze
- Terminates with standard D-type connectors

★ Web Code: MAP



Part No.	Manufacturer	Product No.	Shell	Cont.	Gender	1	10	100
109226	ValuePro	MDB9P-R	Metal	9	M	\$1.75	\$1.49	\$1.25
12504	ValuePro	CDB9P-R	Plastic	9	M	2.25	1.95	1.75
109218	ValuePro	MDB9S-R	Metal	9	F	1.85	1.65	1.45
12521	ValuePro	CDB9S-R	Plastic	9	F	2.49	2.25	1.95
614387	AMP	747318-4††	Plastic	9	F	4.49	3.95	3.49
1577961	3M	8309-6000R	Metal	9	F	3.95	3.69	3.29
614328	AMP	747303-4R	Metal	9	F	.99	.89	.79
117382	ValuePro	MDA15P	Metal	15	M	1.75	1.49	1.29

†† With standard mounting holes

Continued on next page

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## D-Subminiature Connectors (Continued)

\*Web Code: MAP

### IDC Ribbon Cable (Continued)

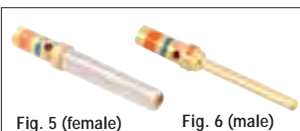
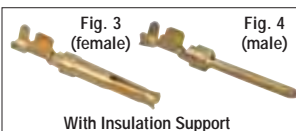
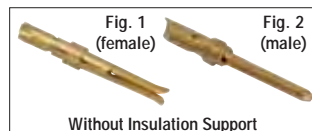
Part No.	Manufacturer	Product No.	Shell	Cont.	Gender	1	10	100
12299	ValuePro	CDA15P	Plastic	15	M	\$1.49	\$1.25	\$1.09
116012	ValuePro	MDA15S	Metal	15	F	1.95	1.75	1.49
12319	ValuePro	CDA15S	Plastic	15	F	1.49	1.25	1.09
115984	ValuePro	MDB25P	Metal	25	M	2.39	2.09	1.79
12335	ValuePro	CDB25P	Plastic	25	M	1.89	1.75	1.49
115976	ValuePro	MDB25S	Metal	25	F	2.25	1.95	1.75

### IDC Ribbon Cable (Continued)

Part No.	Manufacturer	Product No.	Shell	Cont.	Gender	1	10	100
12432	ValuePro	CDB25S	Plastic	25	F	\$2.25	\$1.95	\$1.75
115992	ValuePro	MDC37P	Metal	37	M	2.95	2.65	2.35
614336	AMP	747306-1	Metal	37	M	7.95	7.49	6.95
12466	ValuePro	CDC37P	Plastic	37	M	2.95	2.69	2.39
116004	ValuePro	MDC37S	Metal	37	F	3.49	2.95	2.49
12483	ValuePro	CDC37S	Plastic	37	F	2.95	2.69	2.29

## D-Sub Solder & Crimp Contacts

\*Web Code: JDC



### Female Solder Contact – Fig. 1

Part No.	Mfr.	Product No.	AWG	10	100	500
223319	AMP	66569-3	18	\$.35	\$.29	\$.25

### Male Solder Contact – Fig. 2

Part No.	Mfr.	Product No.	AWG	10	100	500
234982	AMP	66570-3	28-24	\$.29	\$.25	\$.19

### Female Crimp Contacts – Fig. 3

Part No.	Mfr.	Product No.	AWG	10	100	1000
43369	ValuePro	500-155	28-24	\$.12	\$.09	\$.08
185412	ValuePro	1006-PS†	28-24	\$.09	\$.07	\$.05
223221	AMP	1-66505-0	28-24	\$.19	\$.15	\$.12
223239	AMP	66683-4	28-24	\$.19	\$.15	\$.12
223247	AMP	745253-6	26-22	\$.19	\$.15	\$.12
860001	AMP	66504-4	24-20	\$.12	\$.09	\$.07
223298	AMP	66504-9	24-20	\$.19	\$.15	\$.12
223255	AMP	1-66504-0	24-20	\$.19	\$.15	\$.12
223271	AMP	5-66504-7	24-20	\$.12	\$.09	\$.07

† Use with 180890, pg 63

## AMP D-Sub Enclosure Kit

- Kit includes: (2) 4-40 jack screw (zinc alloy), lock thermoplastic connector insert, steel tin plated inner and outer shell, black PVC enclosure, 62-pin male D-sub connector



Part No.	Mfr.	Part No.	1	10	100
837986		748476-1	\$3.95	\$3.59	\$3.25

## .050" (1.27mm) Pitch LFH™ Matrix 50 Shielded Receptacle

### 60 Circuit, Vertical

- Same size as 15-pin D-sub for standard panel cut-outs and hardware use
- Volt./current: 40V @ 1A
- Contact resistance: 20mΩ max.
- Insulation resistance: 100MΩ min.
- Housing: glass filled polymer, UL94V-0
- Contact: beryllium copper alloy
- Plating: 30μ min. gold over nickel in contact area, 100μ min. tin/lead over nickel in PC tail area, 150μ min. bright tin over nickel all over copper flash on shields



Part No.	Mfr.	Part No.	1	10
802222		70928-0002	\$7.95	\$6.95

### Male Crimp Contacts– Fig. 4

Part No.	Mfr.	Product No.	AWG	10	100	1000
185421	ValuePro	1006-PP†	28-24	\$0.09	\$0.08	\$0.07
43377	ValuePro	500-055	28-24	\$.12	\$.09	\$.08
223108	AMP	66507-9	28-24	\$.19	\$.15	\$.12
223095	AMP	1-66507-0	28-24	\$.12	\$.09	\$.07
223132	AMP	745254-7	26-22	\$.19	\$.17	\$.15
223191	AMP	66506-9	24-20	\$.19	\$.15	\$.12
223167	AMP	1-66506-0	24-20	\$.19	\$.15	\$.12
838399	AMP	2-66506-4	24-20	\$.15	\$.12	\$.09
223183	AMP	5-66506-9	24-20	\$.12	\$.09	\$.07
223175	AMP	205202-7	24-20	\$.35	\$.29	\$.25

† Use with 180882, pg 63

### Female Crimp Contact (M39029/63-368) – Fig. 5

• Machined

Part No.	Mfr.	Product No.	1	10	100
449351	AMP	205090-1	\$.55	\$.45	\$.39

### Male Crimp Contact (M39029/64-369) – Fig. 6

• Machined

Part No.	Mfr.	Product No.	1	10	100
449342	AMP	205089-1	\$.49	\$.39	\$.35

## D-Sub Connector Hoods

\*Web Code: DAB



- Use with D-sub solder cup and housing style connectors (hardware included)

D Series: Plastic hood with strain relief (gray)

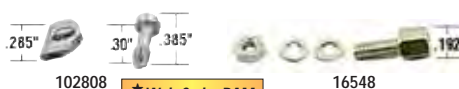
MD Series: Metal coated plastic hood w/ strain relief

MH Series: Die-cast metal hood with strain relief

Part No.	Mfr.	Product No.	Pins	1	10	100
15722	ValuePro	DB9H	9	\$.59	\$.49	\$.39
25620	ValuePro	MDB9H	9	\$.65	\$.55	\$.45
147741	ValuePro	MHDB9	9	1.59	1.39	1.19
230893	AMP	205729-1†	9	2.65	2.39	2.19
15019	ValuePro	DA15H	15	\$.75	\$.59	\$.49
25567	ValuePro	MDA15H	15	\$.89	\$.69	\$.59
15086	ValuePro	DB25H	25	\$.59	\$.49	\$.39
25604	ValuePro	MDB25H	25	\$.89	\$.69	\$.59
15107	ValuePro	MHDB25	25	2.25	1.95	1.75
230914	AMP	205718-1†	25	1.49	1.35	1.19
15457	ValuePro	DC37H	37	\$.95	\$.79	\$.65
25612	ValuePro	MDC37H	37	\$.95	\$.79	\$.65
15660	ValuePro	DD50H	50	\$.99	\$.89	\$.79
230931	AMP	205732-1†	50	1.75	1.59	1.39

† Plastic clam shell hood (black)

## Hardware for D-Sub Connector Hoods

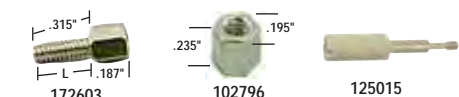


\*Web Code: PAM

### 4-40 Screw Sets

- 102808: 4-40 screw (.385"L) and retainer clip
- 16548: 4-40 x .187" jack screw (.31"L thread), washer, lock washer and nut set
- 444912: (2) washers, lockwasher, hex nut and screw locks are steel with zinc plating and yellow chromate finish
- 1575931: (2) nut-4-40 UNC, lock washer, 0.03" dia. spacer, jack socket screw

Part No.	Mfr.	Prod. No.	Plating*	1	10	100
102808	ValuePro	14-553	A	\$.55	\$.49	
16548	ValuePro	14-522	A	\$.55	\$.49	
444912	Cinch	D20418-39	C	1.69	1.49	1.35
1575931	3M	3341-1S	A	1.95	1.75	1.59



### 4-40 x .187" Jack Screws

Part No.	Mfr.	Length	Plating*	1	10	100
169931	ValuePro	.275"	A	\$.25	\$.22	\$.19
172603	ValuePro	.315"	A	\$.29	\$.25	\$.19
2100283	ValuePro	.315"	D	\$.15	\$.15	\$.12
1582209	Keystone	.315"	C	\$.19	\$.15	\$.15
1582508	Keystone	.315"	B	\$.29	\$.25	\$.19
102816	ValuePro	.437"	B	\$.39	\$.35	\$.25
108987	ValuePro	.515"	A	\$.45	\$.39	\$.29

### 4-40 x .187" Standoffs

Part No.	Mfr.	Length	Plating*	1	10	100
175636	ValuePro	.187"	B	\$.25	\$.22	\$.15
102796	ValuePro	.250"	A	\$.35	\$.29	\$.25

### 4-40 Thumbscrew

Part No.	Mfr.	Length	Plating*	1	10	100
125015	ValuePro	1.65"	A	\$.29	\$.25	\$.19

\* A: Zinc, clear chromate B: Chrome C: Zinc, yellow chromate  
D: Chrome with lock washer

## 25-Pin Dual Plastic Hood

Designed for custom applications requiring two D-sub connectors.

Kit includes: Backshell and hardware



Part No.	Description	1	10	100
34091	25-pin hood	\$.99	\$.85	\$.69

\*Junction Shells Online — Enter Web Code DAB

**molex**

## Power Connectors

- 5.03mm (.198") pitch
- Passive friction lock
- Housing: nylon; UL94V-2
- Temperature range: -40°C to +105°C
- Contact retention to housing: 20 lbs. min.



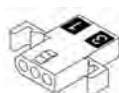
Free Hanging Plug  
(Matrix)



Panel Mount Plug  
(In-line)



Free Hanging Receptacle  
(Matrix)



Panel Mount Receptacle  
(In-line)

### .062" (1.57mm) Plugs

- Current: 5.0A

\* Web Code: HBL

\* Order in multiples of 10

Part No.	Mfr. No.	Circuits	Type	Pattern	Mating Conn.	1	10	100
224485	03-06-2024	2	Free hanging	In-line	224400	..... *	\$ .19	\$ .15
229948	03-06-2024	2	Panel mount	In-line	229956	..... *	.15	.12
224493	03-06-2032	3	Free hanging	In-line	—	..... .39	.35	.25
224506	03-06-2042	4	Free hanging	In-line	224426	..... *	.19	.15
224514	03-06-2044	4	Free hanging	Matrix	224434	..... .39	.35	.29
230041	03-06-2062	6	Panel mount	Matrix	—	..... *	.19	.15
224531	03-06-2092	9	Free hanging	Matrix	224451	..... *	.19	.15

### .062" (1.57mm) Receptacles

Part No.	Mfr. No.	Circuits	Type	Pattern	Mating Conn.	1	10	100
224400	03-06-1023	2	Free hanging	In-line	224485	..... *	\$ .15	\$ .12
229956	03-06-1022	2	Panel mount	In-line	229948	..... *	.15	.12
224426	03-06-1042	4	Free hanging	In-line	224506	..... .39	.35	.29
224434	03-06-1044	4	Free hanging	Matrix	224514	..... .39	.35	.25
224442	03-06-1062	6	Free hanging	Matrix	—	..... .35	.29	.25
224451	03-06-1092	9	Free hanging	Matrix	224531	..... .35	.29	.25

### .093" (2.36mm) Plugs

- Current: 12A/circuit

\* Web Code: CBL

Part No.	Mfr. No.	Circuits	Type	Pattern	Mating Conn.	1	10	100
224071	03-09-2022	2	Free hanging	In-line	224143	..... \$ .25	\$ .22	\$ .15
224080	03-09-2032	3	Free hanging	In-line	224151	..... .29	.25	.19
224098	03-09-2042	4	Free hanging	In-line	—	..... .35	.29	.25
229825	03-09-2049	4	Free hanging	Matrix	—	..... *	.19	.15
743234	19-09-2068	6	Panel mount	In-line	743189	..... *	.19	.15
224127	03-09-2121	12	Free hanging	Matrix	—	..... *	.15	.12

† 6.71mm (.264") pitch

### .093" (2.36mm) Receptacles

Part No.	Mfr. No.	Circuits	Type	Pattern	Mating Conn.	1	10	100
224143	03-09-1022	2	Free hanging	In-line	224071	..... \$ .25	\$ .22	\$ .15
224151	03-09-1032	3	Free hanging	In-line	224080	..... .29	.25	.19
230156	03-09-1041	4	Panel mount	In-line	—	..... *	.19	.15
224186	03-09-1094	9	Free hanging	Matrix	—	..... .39	.35	.29

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## .093" Power Connector Kits

Kit contains mating sets of housings and pins.

- Voltage: 250VAC
- Temp. range: -40°C to +105°C
- 142181: • 3 ea. 2-pin plugs & receptacles, 8 ea. female & male contacts
- Current: 12A
- 142201: • 2 ea. 4-pin plugs & receptacles, 10 ea. female & male contacts
- Current: 9A

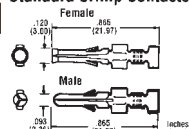


Receptacle



Plug

### Standard Crimp Contacts



Includes: Male and female tin-plated standard brass .010" pins; 18-22 AWG crimp size wire

Part No.	Mfr. Part No.	Description	1	10	100
142181	1545	2-pin kit	..... \$4.49	\$3.95	\$3.49
142201	1490	4-pin kit	..... 4.49	3.95	3.49

**JAMECO**  
ValuePro

## .098" (2.49mm) Pitch AT Power Connectors

- Voltage rating: 250V AC/DC
- Current rating: 7A AC/DC
- Temperature range: -25°C to 85°C
- Withstanding volt.: 1500V/min.
- Insulation resistance: 1000MΩ min.
- For use with motherboards and power supplies
- Material: nylon

### 78300:

- Size: 0.93"L x 0.37"W x 0.57"H
- Material of post: tin-plated brass
- Diameter of post: 0.09"

### 78327:

- Size: 0.94"L x 0.25"W x 0.74"H

\* Order in multiples of 10

Part No.	Description	1	10	100
78300	6-pin male header	..... *	\$ .19	\$ .15
78327	6-pin female housing	..... .29	.25	.22

\* Web Code: QAT



78300



78327

**molex**

## Power Connector Contacts

**JAMECO** ValuePro

- Contact: brass or phosphor bronze
- Temp. range: -40°C to +105°C
- Tin plating

\* Web Code: JBL



Crimp-Type Male



Solder-Tail Male



Crimp-Type Female



Solder-Tail Female

### .062" (1.57mm) Bulk

Order in multiples of 10

Part No.	Mfr.	Cross Ref. No.	Description	Gender	AWG	10	100	1000
224581	Molex	02-06-2132	Crimp type	M	24-30	..... \$ .09	\$ .07	\$ .05
224573	Molex	02-06-1132	Crimp type	F	24-30	..... .09	.07	.05
224565	Molex	02-06-2103	Crimp type	M	18-24	..... .09	.07	.05
224557	Molex	02-06-1103	Crimp type	F	18-24	..... .09	.07	.05
227379	Molex	02-06-8103	Solder tail	M	—	..... .12	.09	.07
227387	Molex	02-06-7103	Solder tail	F	—	..... .12	.09	.07

### .084" (2.13mm) Bulk

Part No.	Mfr.	Cross Ref. No.	Description	Gender	AWG	10	100	1000
401314	ValuePro	02-08-1002C	Crimp type	F	12-14	..... \$ .05	\$ .04	\$ .03
401331	ValuePro	02-08-1004C	Crimp type	F	12-14	..... .05	.04	.03
401306	ValuePro	02-08-1002A	Crimp type	F	18-22	..... .07	.05	.04
401322	ValuePro	02-08-1004A	Crimp type	F	18-22	..... .05	.04	.03
401357	ValuePro	02-08-2004SC	Crimp type	M	12-14	..... .07	.05	.04
401373	ValuePro	02-08-2004LC	Crimp type	M	12-14	..... .05	.04	.03
379541	ValuePro	02-08-2004SB	Crimp type	M	16-20	..... .05	.04	.03
401349	ValuePro	02-08-2004SA	Crimp type	M	18-22	..... .05	.04	.03

### .093" (2.36mm) Bulk

Part No.	Mfr.	Cross Ref. No.	Description	Gender	AWG	10	100	500
224207	Molex	02-09-2118	Crimp type	M	18-22	..... \$ .12	\$ .09	\$ .07
224215	Molex	02-09-1119	Crimp type	F	18-22	..... .12	.09	.07
224223	Molex	02-09-2103	Crimp type	M	14-20	..... .12	.09	.07
224231	Molex	02-09-1104	Crimp type	F	14-20	..... .12	.09	.07
224240	Molex	02-09-2133	Solder tail	M	—	..... .15	.12	.09
224258	Molex	02-09-1134	Solder tail	F	—	..... .15	.12	.09



## More Information Online

Compare products online to quickly find the products you want with the specifications and real time product availability. Purchasing products has never been easier.

[www.Jameco.com](http://www.Jameco.com)

## Hand Crimp Tools

Designed to crimp terminals, strip and cut wires, and cut bolts. For Molex .062" & .093" (pg 65) and KK® series (pg 70) crimp terminals.



308030



227491

\* Web Code: GBU

308030: Cuts & strips 14-24 AWG wires  
227491: Cuts & strips 18-30 AWG wires

Part No.	Mfr. Part No.	Length	Color	1	5
308030	W-HT-1919	8.3"L	Red	..... \$14.95	\$13.95
227491	W-HT-1921	8.3"L	Yellow	..... 14.95	13.95

More Crimp Tools,  
see page 151.



\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Power Connectors, Headers & Housings

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE



## .118" Pitch ATX Power Connectors

### For Motherboards and Power Supplies

- Current rating: 7A AC/DC • Temperature range: -25°C to 85°C
- 147379: Material: nylon 66, UL-94VO
- Material of post: tin-plated brass • Diameter of post: 0.045"
- 147387: Material: nylon 66, UL-94VO
- 147395: Material: tin-plated brass



★ Web Code: FEM

\* Order in multiples of 10

Part No.	Description	L	W	H	Dia	Use With	1	10	100	1000
147379	20-pin male connector	1.7"	0.4"	0.6"	—	—	\$.59	\$.55	\$.49	\$.45
147387	20-pin housing connector	1.7"	0.4"	0.8"	—	147395	.59	.55	.49	.45
147395	Power terminal pin, F	0.59"	—	—	0.068"	147387	*	.15	.12	.09



## Power Connectors & Pins



### Connector & Housing Specifications:

- Voltage rating: 250VAC (Mate-N-Lock 600VAC)
- Operating temperature: -55°C to +105°C

### Crimp Pin Specifications:

- Material: tin plated brass
- Current rating: 1.5A
- Wire size range: 18-24 AWG
- Use crimp tool P/N 99443, pg 151

★ Web Code: KAP

## .200" – For 5.25" Disk Drives & Power Supplies

### 42076 & 42068 Connector Housings:

- External key bar indicates pin 1
- Extraction tools, P/Ns 131887 & 131879 (see right)
- Keyed mating connectors

\* Order in multiples of 10

Part No.	Description	1	10	100
109146	4-pin male vert. PCB mtg.	\$.75	\$.65	\$.59
117568	4-pin male PCB mtg. horiz. edge mnt.	.95	.85	.75
42076	4-pin male housing	*	.12	.09
42068	4-pin female housing	*	.19	.15
42730	Male crimp pin for 42076	*	.12	.09
42650	Female crimp pin for 42068	*	.09	.07

## .100" – For 3.5" Disk Drives & Power Supplies

- Voltage rating: 250V AC, DC
- Insulation resistance: 1000MΩ min.
- Wire gauge: 22-26 AWG

\* Order in multiples of 10

Part No.	Description	1	10	100
114931	4-pin female housing	\$.29	\$.22	\$.15
114922	Female crimp pin for 114931	*	.12	.09
115000	4-pin male rt. angle PCB mounting	.39	.35	.29

For our complete selection of  
Crimp Tools, see page 151.



## Female Crimp Terminals

### For above housings

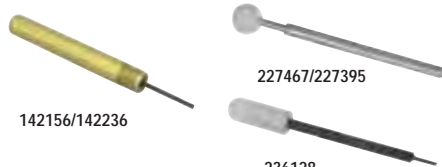
- Contact material: phosphor bronze
- Plating contact: 0.9µm (35µ") tin
- Pre-plated



Order in multiples of 10

Part No.	Mfr. Part No.	AWG	10	100	500
668457	50079-8100	26-28	\$.09	\$.08	\$.07
668473	50058-8100	28-32	.12	.09	.07

## Connector Extraction Tools



Part No.	Mfr. Part No.	AWG	Conn. Size	1	5
142156	W-HT-2285	14	.062" ...	\$14.95	\$12.95
227467	W-HT-2023	18-30	.062" ...	10.95	9.85
142236	W-HT-2038	14	.093" ...	14.95	12.95
227395	W-HT-2054	14-30	.093" ...	10.95	9.85
236128	W-HT-1884	22-30	.100" ...	10.95	9.49

★ More Extraction Tools — Enter Web Code BAV



## Extraction Tools for Crimp Terminals

- Quickly and easily extract .093" locking pins from interlocking connectors
- Length: 5"



- See above for crimp pins
- 131887: Male tool for 42730, above
- 131879: Female tool for 42650, above

Part No.	Cross Ref. No.	1	5
131887	HT319C	\$9.95	\$8.95
131879	HT319B	9.95	8.95



## Quick and Easy Search

Search easily for products by  
entering the manufacturer number,  
Jameco part number or keyword.



## .079" (2.00mm) Pitch Headers and Housings

- Voltage rating: 125V
- Contact resistance: 20mΩ max.
- Insulation resistance: 1000MΩ min.
- Housing material: PBT polyester
- Dielectric withstanding voltage: 250VAC/1 min.

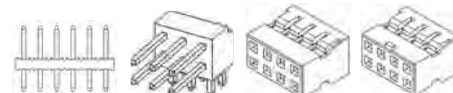


Fig. 1

Fig. 2

Fig. 3

Fig. 4

\* Order in multiples of 10

## Dual Row Vertical Headers (Fig. 1)

Part No.	Cross Ref. No.	Circuits	1	10	100
378521	87758-0416	4	*	\$.09	\$.08
378556	87758-1016	10	*	.09	.08
378572	87758-1416	14	*	.09	.08
378581	87758-1616	16	*	.19	.15
378599	87758-1816	18	*	.19	.15
378610	87758-2216	22	*	.19	.15
378628	87758-2416	24	*	.19	.15
378652	87758-3016	30	*	.19	.15
378708	87758-4016	40	\$.29	.25	.22
378759	87758-5016	50	.49	.45	.39

## Right-Angle Headers (Fig. 2)

Part No.	Cross Ref. No.	Circuits	1	10	100
378775	87760-0616	6	*	\$.09	\$.08
378783	87760-0816	8	*	.09	.08
378804	87760-1216	12	*	.19	.15
378812	87760-1416	14	*	.19	.15
378821	87760-1616	16	*	.19	.15
378839	87760-1816	18	*	.19	.15
378847	87760-2016	20	*	.19	.15

## Housings w/o Polarizing Key (Fig. 3)

Part No.	Cross Ref. No.	Circuits	1	10	100
378011	51110-1250	12	*	\$.09	\$.08
378020	51110-1450	14	*	.09	.08
378038	51110-1650	16	*	.09	.08
378046	51110-1850	18	*	.09	.08
378054	51110-2050	20	*	.09	.08
378062	51110-2250	22	*	.09	.08
378071	51110-2450	24	*	.09	.08
378089	51110-2650	26	*	.09	.08
378097	51110-2850	28	*	.09	.08
378100	51110-3050	30	*	.09	.08

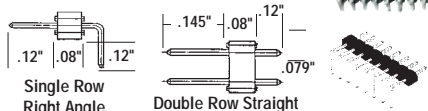
## Housings w/ Polarizing Key (Fig. 4)

Part No.	Cross Ref. No.	Circuits	1	10	100
378142	51110-0851	8	*	\$.09	\$.08
378151	51110-1051	10	*	.09	.08
378169	51110-1251	12	*	.09	.08
378177	51110-1451	14	*	.09	.08
378185	51110-1651	16	*	.09	.08
378193	51110-1851	18	*	.09	.08
378206	51110-2051	20	*	.09	.08
378214	51110-2251	22	*	.09	.08
378222	51110-2451	24	*	.09	.08
378231	51110-2651	26	*	.09	.08
378249	51110-2851	28	*	.09	.08
378257	51110-3051	30	*	.09	.08

## .079" (2.00mm) Male Headers

- Solder to PC boards for instant plug-in access via shorting blocks (pg 67)
- Insulator: UL94V-0 polyester
- Contact material: phosphor bronze
- Temperature range: -55°C to +120°C
- .025" square posts on a .100" x .100" matrix
- Use with crimp connector housing, pg 72
- Current rating: 1 amp
- Contact area: gold

★ Web Code: VMH



Order in multiples of 10

### Right Angle Single Row Male Headers

Part No.	Product No.	Contacts	1	10	100	1000
2076914	079RA12	2	...	...	...	...
2076922	079RA14	4	...	...	...	...
2076931	079RA15	5	...	...	...	...
2076949	079RA110	10	...	...	...	...

### Straight Single Row Male Headers

Part No.	Product No.	Contacts	1	10	100	500
2076957	079SS2	2	...	...	...	...
2077087	079SS3	3	...	...	...	...
2077095	079SS4	4	...	...	...	...
2077108	079SS6	6	...	...	...	...
2077116	079SS10	10	...	...	...	...
2077124	079SS14	14	...	...	...	...
2077132	079SS20	20	...	...	...	...

### Straight Double Row Male Headers

Part No.	Product No.	Contacts	1	10	100	500
2077141	079DH4	4	...	...	...	...
2077204	079DH8	8	...	...	...	...
2076965	079DH10	10	...	...	...	...
2076973	079DH12	12	...	...	...	...
2076981	079DH14	14	...	...	...	...
2076990	079DH16	16	...	...	...	...
2077001	079DH20	20	...	...	...	...
2077010	079DH26	26	...	...	...	...
2077028	079DH30	30	...	...	...	...
2077036	079DH40	40	...	...	...	...

## Milli-Grid™ Female Crimp Terminal

For 51110 Series Housings on left

- Lead free
- Contact material: phosphor bronze
- Plating contact: 0.38µm (15µ) gold
- Under plating: nickel

Order in multiples of 10



Part No.	Mfr. No.	AWG	10	100	500
668465	50394-8100	24-30	...	...	...

## .100" (2.54mm) PCB Connector

★ Web Code: YBZ

Receptacle, Top Entry with Hooks (Tin/Brass)

- Accepts 0.025" square posts
- Voltage rating: 250VAC
- Contact resistance: 40mΩ max.
- Insulation material: nylon 6/6, UL94V-2
- Withstanding voltage: 1000VAC/min.

Order in multiples of 10

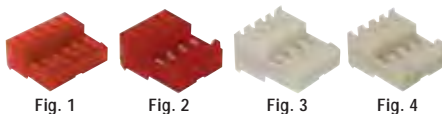
Part No.	Mfr. Part No.	Pos.	10	100
688394	2405S09V000	9	...	...



## .100" (2.54mm) IDC Connectors

★ Web Code: CCV

- Volt. rating: 250VAC
- Housing: UL94V-2 nylon
- Contact material: phosphor bronze
- Plating: tin



### Closed-End Style

Without Polarizing Tabs (Fig. 1)

Part No.	Product No.	Pos.	AWG	Color	10	100	500
345631	640440-5	5	22	Red	...	...	...
345640	640440-6	6	22	Red	...	...	...
345738	640441-6	6	24	White	...	...	...
345746	640441-7	7	24	White	...	...	...
345771	1-640441-0	10	24	White	...	...	...
345800	1-640442-4	4	26	Blue	...	...	...

With Polarizing Tabs (Fig. 2)

Part No.	Product No.	Pos.	AWG	Color	10	100	500
345973	643813-3	3	22	Red	...	...	...
346028	643813-8	8	22	Red	...	...	...
346087	643814-5	5	24	White	...	...	...
346095	643814-6	6	24	White	...	...	...
346108	643814-7	7	24	White	...	...	...

### Feed-Thru Style

Without Polarizing Tabs (Fig. 3)

Part No.	Product No.	Pos.	AWG	Color	10	100	500
346327	640620-2	2	22	Red	...	...	...
346351	640620-5	5	22	Red	...	...	...
346378	640620-7	7	22	Red	...	...	...
346394	640620-9	9	22	Red	...	...	...
346407	1-640620-0	10	22	Red	...	...	...
346423	640621-3	3	24	White	...	...	...
346440	640621-5	5	24	White	...	...	...
346458	640621-6	6	24	White	...	...	...
346474	640621-8	8	24	White	...	...	...
346482	640621-9	9	24	White	...	...	...

With Polarizing Tabs (Fig. 4)

Part No.	Product No.	Pos.	AWG	Color	10	100	500
346685	644540-2	2	22	Red	...	...	...
346693	644540-3	3	22	Red	...	...	...
346722	644540-6	6	22	Red	...	...	...
346731	644540-7	7	22	Red	...	...	...
346749	644540-8	8	22	Red	...	...	...
346765	1-644540-0	10	22	Red	...	...	...
346773	644563-2	2	24	White	...	...	...
346781	644563-3	3	24	White	...	...	...
346811	644563-6	6	24	White	...	...	...
346853	1-644563-0	10	24	White	...	...	...

## MTA-100 .100" (2.54mm) IDC Connector

Closed-End Style w/o Polarizing Tabs with Locking Ramp

- Contacts: phosphor bronze, tin-plated
- Voltage rating: 250VAC
- Current rating: 5A

★ Web Code: CCV



Order in multiples of 10

Part No.	Product No.	Pos.	AWG	Color	10	100	500
524710	640440-4	4	22	Red	...	...	...



## .100" Strain Relief Covers

Fig. 1

Fig. 2

Order in multiples of 10

Part No.	Cross Ref.	Fig.	Style	Pos.	10	100
326019	643075-2	1	Closed-end	2	...	...
326043	643075-5	1	Closed-end	5	...	...
326051	643075-6	1	Closed-end	6	...	...
326060	643075-7	1	Closed-end	7	...	...
326086	643075-9	1	Closed-end	9	...	...
326094	1-643075-0	1	Closed-end	10	...	...
326107	643077-2	2	Feed-thru	2	...	...
326115	643077-3	2	Feed-thru	3	...	...
326123	643077-4	2	Feed-thru	4	...	...
326131	643077-5	2	Feed-thru	5	...	...
326140	643077-6	2	Feed-thru	6	...	...
326158	643077-7	2	Feed-thru	7	...	...
326166	643077-8	2	Feed-thru	8	...	...
326174	643077-9	2	Feed-thru	9	...	...
326182	1-643077-0	2	Feed-thru	10	...	...

## AMP T-Handle Tool

- For .100" (2.54mm) IDC connectors



Part No.	Mfr. P/N	Description	1	5
365974	59803-1	.100" hand tool	...	...



## .100" & 2mm Shorting Blocks



22204 (open) 112432 (closed) 152671 (closed)

- Mates to .025" square posts on .100" centers
- Shorts headers/jumper blocks or color code strip line plugs
- Mate with male headers, above
- Pin material: phosphor bronze

★ Web Code: MAC

Open: Open on top to allow for a test point

Closed: Closed top

119264: 2mm (for disk drives)

Order in multiples of 10

Part No.	Description	10	100	500
22024	Top open, black (.100")	...	...	...
119264	Top open, black (2mm)	...	...	...
112425	Top open, blue (.100")	...	...	...
112417	Top open, red (.100")	...	...	...
19141	Top closed, black (.100")	...	...	...
112442	Top closed, blue (.100")	...	...	...
112432	Top closed, red (.100")	...	...	...
152671	Top closed, black (.100")	...	...	...

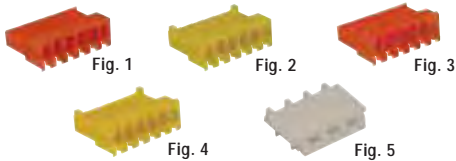
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## AMP MTA-156 Series Value Equivalents

Order in multiples of 10

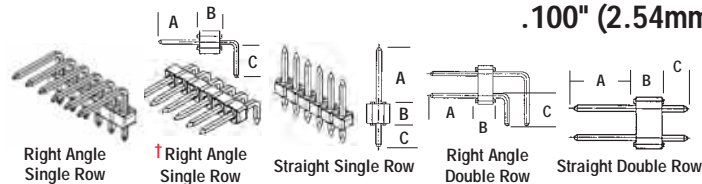
### Closed-End Style

#### With Locking Ramp, w/o Polarizing Tabs (Fig. 1)

Part No.	Product No.	Pos.	AWG	Color	10	100	500
397431	640426-2	2	18	Orange	\$.09	\$.08	\$.07
397440	640426-3	3	18	Orange	.15	.12	.09
397474	640426-6	6	18	Orange	.09	.08	.07
397520	640427-2	2	20	Yellow	.15	.12	.09
397554	640427-5	5	20	Yellow	.15	.12	.09
397562	640427-6	6	20	Yellow	.09	.08	.07

#### Strain Relief Covers for Closed-End Style

Part No.	Product No.	Pos.	10	100	500
398696	643067-2	2	\$.09	\$.08	\$.07
398709	643067-3	3	.09	.08	.07
398717	643067-4	4	.09	.08	.07
398725	643067-5	5	.09	.08	.07



### Right Angle Single Row Male Headers

Part No.	Manufacturer	Product No.	Pos.	Size (A"xB"xC")	Plating	1	10	100
2120305	Various	PN3-230/120-021W	2	.21 x .10 x .10	Gold	\$.29	\$.25	\$.19
2076842	ValuePro	RMH5	5	.27 x .10 x .12	Gold	*.19	.15	
2076851	ValuePro	RMH6	6	.27 x .10 x .12	Gold	.29	.25	.19
153728	ValuePro	RMH8	8	.27 x .10 x .12	Gold	.39	.35	.29
2076869	Various	RMH26	26	.27 x .10 x .12	Gold	.55	.45	.35
103271	ValuePro	RMH36 (LP)	36	.23 x .10 x .12	Gold	.95	.79	.65
1946041	ValuePro	RMH36AR(type A)	36	.27 x .10 x .22	Gold	.85	.69	.55

† Low profile

### Straight Single Row Male Headers

Part No.	Manufacturer	Product No.	Pos.	Size (A"xB"xC")	Plating	1	10	100
2076797	Various	SMH01	1	.23 x .10 x .12	Gold	*.09	*.09	\$.07
222966	Various	SMH01GT-43	1	.43 x .10 x .12	Gold/Tin	*.15	.11	
108338	ValuePro	SMH02	2	.23 x .10 x .12	Gold	.29	.25	.19
421489	AMP	103185-3	3	.23 x .09 x .12	Gold/Tin	.39	.35	.29
109576	ValuePro	SMH03	3	.23 x .10 x .12	Gold	.35	.29	.25
117560	ValuePro	SMH04	4	.23 x .10 x .12	Gold	.29	.25	.19
2120276	OST	PHI-787/120-041	4	.78 x .10 x .12	Gold	.25	.22	.15
2076789	Various	SMH05	5	.23 x .10 x .12	Gold	*.19	.15	
153700	ValuePro	SMH06	6	.23 x .10 x .12	Gold	.29	.25	.19
2076800	Various	SMH07	7	.23 x .10 x .12	Gold	*.09	.07	
687181	Leoco	2556P07JL62	7	.23 x .10 x .12	Gold/Tin	*.15	.12	
153702	ValuePro	SMH08	8	.23 x .10 x .12	Gold	.29	.25	.19
2076818	Various	SMH09	9	.23 x .10 x .12	Gold	*.09	.07	
103393	ValuePro	SMH10	10	.23 x .10 x .12	Gold	.35	.29	.25

\*Dimension "A" has gold plating; dimension "C" has tin plating

## .156" (3.96mm) IDC Connectors

### Closed-End Style

#### With Locking Ramp, Polarizing Tabs (Fig. 2)

Part No.	Product No.	Pos.	AWG	Color	10	100	500
397618	643817-2	2	18	Orange	\$.09	\$.08	\$.07
397626	643817-3	3	18	Orange	.09	.08	.07
397634	643817-4	4	18	Orange	.09	.08	.07
397642	643817-5	5	18	Orange	.09	.08	.07
397651	643817-6	6	18	Orange	.09	.08	.07
397706	643818-2	2	20	Yellow	.09	.08	.07
397714	643818-3	3	20	Yellow	.09	.08	.07
397722	643818-4	4	20	Yellow	.09	.08	.07
397731	643818-5	5	20	Yellow	.09	.08	.07
397749	643818-6	6	20	Yellow	.09	.08	.07

### Feed-Thru Style

#### With Locking Ramp, w/o Polarizing Tabs (Fig. 3)

Part No.	Product No.	Pos.	AWG	Color	10	100	500
397802	640599-3	3	18	Orange	\$.09	\$.08	\$.07
397829	640599-5	5	18	Orange	.09	.08	.07
397837	640599-6	6	18	Orange	.09	.08	.07
397888	640600-2	2	20	Yellow	.09	.08	.07
397909	640600-4	4	20	Yellow	.09	.08	.07
397917	640600-5	5	20	Yellow	.09	.08	.07
397925	640600-6	6	20	Yellow	.09	.08	.07

### Feed-Thru Style

#### With Locking Ramp, Polarizing Tabs (Fig. 4)

Part No.	Product No.	Pos.	AWG	Color	10	100	500
397984	644465-3	3	18	Orange	\$.09	\$.08	\$.07
397992	644465-4	4	18	Orange	.09	.08	.07
398004	644465-5	5	18	Orange	.09	.08	.07
398012	644465-6	6	18	Orange	.09	.08	.07
398063	644466-2	2	20	Yellow	.09	.08	.07
398071	644466-3	3	20	Yellow	.09	.08	.07
398080	644466-4	4	20	Yellow	.09	.08	.07
398098	644466-5	5	20	Yellow	.09	.08	.07
398101	644466-6	6	20	Yellow	.09	.08	.07

#### Strain Relief Covers for Feed-Thru Style (Fig. 5)

Part No.	Product No.	Pos.	10	100	500
398602	643071-2	2	\$.09	\$.08	\$.07
398611	643071-3	3	.09	.08	.07
398629	643071-4	4	.09	.08	.07
398637	643071-5	5	.09	.08	.07
398645	643071-6	6	.09	.07	.05

For IDC connector crimp tool, see page 71



## .100" (2.54mm) Male Headers



### Straight Single Row Male Headers (Continued)

Part No.	Manufacturer	Product No.	Pos.	Size (A"xB"xC")	Plating	1	10	100
103377	ValuePro	SMH17	17	.23 x .10 x .12	Gold	\$.35	\$.29	\$.25
103369	ValuePro	SMH20	20	.23 x .10 x .12	Gold	.35	.29	.25
202825	ValuePro	SMH22	22	.23 x .10 x .12	Gold	.35	.29	.25
103351	ValuePro	SMH25	25	.23 x .10 x .12	Gold	.39	.35	.25
103342	ValuePro	SMH30	30	.23 x .10 x .12	Gold	.39	.35	.25
222991	Various	SMH32GT	32	.23 x .10 x .12	Gold/Tin	.39	.29	.25
2076826	ValuePro	SMH34	34	.23 x .10 x .12	Gold	.39	.35	.25
68339	ValuePro	SMH36	36	.23 x .10 x .12	Gold	.45	.35	.29
160882	ValuePro	SMH40	40	.23 x .10 x .12	Gold	.59	.49	.39
527654	AMP	4-102976-0	40	.32 x .09 x .12	Gold/Tin	2.49	2.25	1.95

\*Dimension "A" has gold plating; dimension "C" has tin plating

### Right Angle Double Row Male Headers

• Position: 4 is 2 rows of 2; 12 is 2 rows of 6 (example)

Part No.	Manufacturer	Product No.	Pos.	Size (A"xB"xC")	Plating	1	10	100
203908	ValuePro	923804DR	4	.23 x .10 x .12	Gold	*.09	\$.07	
203917	ValuePro	923806DR	6	.23 x .10 x .12	Gold	*.19	.15	
203924	ValuePro	923808DR	8	.23 x .10 x .12	Gold	.29	.25	.22
203932	ValuePro	923810DR	10	.23 x .10 x .12	Gold	.29	.25	.19
203941	ValuePro	923812DR	12	.23 x .10 x .12	Gold	*.09	.07	
2099930	Various	923814DRT	14	.23 x .10 x .12	Tin	*.09	.07	
203959	ValuePro	923814DR	14	.23 x .10 x .12	Gold	*.15	.12	
203967	ValuePro	923816DR	16	.23 x .10 x .12	Gold	.39	.29	.25
203975	ValuePro	923818DR	18	.23 x .10 x .12	Gold	.35	.29	.25
53576	ValuePro	923820DR	20	.23 x .10 x .12	Gold	.49	.39	.35
53583	Various	923826DR	26	.23 x .10 x .12	Gold	.55	.45	.35
53605	ValuePro	923840DR	40	.23 x .10 x .12	Gold	.75	.65	.55
53612	ValuePro	923850DR	50	.23 x .10 x .12	Gold	.75	.65	.55
103413	ValuePro	923872DR	72	.23 x .10 x .12	Gold	.85	.69	.59
139564	ValuePro	923880DR	80	.23 x .10 x .12	Gold	1.19	.99	.85

Straight Double Row Male Headers on next page

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RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.





## .100" (2.54mm) Male Headers (Continued)

★ Web Code: QCM

### Straight Double Row Male Headers

• Position: 4 is 2 rows of 2; 12 is 2 rows of 6 (example)

Part No.	Mfr.	Product No.	Pos.	Size (A"xB"xC") *	Plating	* Order in multiples of 10		
						1	10	100
115027	Various	923804DS	4	.23 x .10 x .12	Gold	..... *	\$ .15	\$ .12
115035	ValuePro	923806DS	6	.23 x .10 x .12	Gold	..... .29	.25	.19
15158	Various	DMH06T-30	6	.30 x .10 x .12	Tin	..... *	.15	.12
15747	Various	DMH06-30	6	.30 x .10 x .12	Gold	..... .29	.25	.19
109516	Various	923808DS	8	.23 x .10 x .12	Gold	..... .29	.25	.19
109517	ValuePro	7000-2x4SG	8	.23 x .10 x .12	Gold	..... .35	.29	.25
67821	ValuePro	923810DS	10	.23 x .10 x .12	Gold/Tin	..... .35	.29	.25
203810	ValuePro	923812DS	12	.23 x .10 x .12	Gold	..... .39	.29	.25
118456	ValuePro	923814DS	14	.23 x .10 x .12	Gold	..... .49	.39	.35
109568	ValuePro	923816DS	16	.23 x .10 x .12	Gold	..... .55	.45	.39
2076877	Various	923818DS	18	.23 x .10 x .12	Gold	..... .55	.45	.35
53480	ValuePro	923820DS	20	.23 x .10 x .12	Gold	..... .65	.55	.45
203844	ValuePro	923824DS	24	.23 x .10 x .12	Gold	..... .75	.59	.49
53495	ValuePro	923826DS	26	.23 x .10 x .12	Gold	..... .75	.59	.49
2120292	OST	PH2-320/110-261	26	.30 x .10 x .12	Gold	..... .65	.55	.45
203852	ValuePro	923828DS	28	.23 x .10 x .12	Gold	..... .35	.29	.25

\* For sizes please reference pictures on previous page

### Straight Double Row Male Headers (Continued)

Part No.	Mfr.	Product No.	Pos.	Size (A"xB"xC") *	Plating	1	10	100
203861	ValuePro	923832DS	32	.23 x .10 x .12	Gold	..... \$ .75	\$ .59	\$ .49
53517	ValuePro	923834DS	34	.23 x .10 x .12	Gold	..... .75	.59	.49
203888	ValuePro	923836DS	36	.23 x .10 x .12	Gold	..... .85	.69	.55
203895	ValuePro	923838DS	38	.23 x .10 x .12	Gold	..... .49	.39	.25
53532	ValuePro	923840DS	40	.23 x .10 x .12	Gold	..... .75	.59	.49
53560	ValuePro	923850DS	50	.23 x .10 x .12	Gold	..... .75	.59	.49
68574	ValuePro	923860DS	60	.23 x .10 x .12	Gold	..... .85	.69	.55
103406	ValuePro	70002X36SG-R	72	.23 x .10 x .12	Gold	..... .95	.79	.65
2120284	OST	PH2-230/135-805	80	.23 x .10 x .12	Tin	..... .85	.69	.55
117197	ValuePro	923880DS	80	.23 x .10 x .12	Gold	..... 1.09	.95	.79

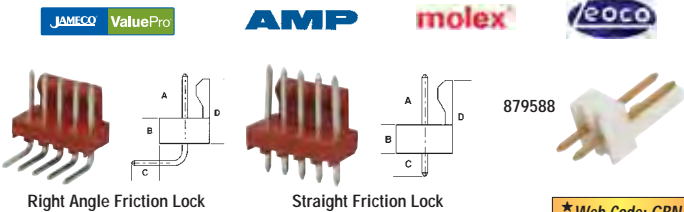
### Straight Triple Row Male Headers

2076885	Various	933812TS	12	.23 x .10 x .12	Gold	..... \$ .29	\$ .25	\$ .19
2076893	Various	933824TS	36	.23 x .10 x .12	Gold	..... .65	.55	.45

### Male Headers Grab Bag

Part No.	Cross Ref.	Description	Wt. (lbs.)	1	10
2095138	GB204	100 assorted .100" male headers (breakaway) Straight, right angle, single and double row	0.3	..... \$9.95	\$8.95

## .100" (2.54mm) Friction Lock Headers



### Right Angle Friction Lock Headers

Part No.	Mfr.	Product No.	Pos.	Size (A"xB"xC"xD") *	Plating	* Order in multiples of 10		
						1	10	100
233437	Molex	22-05-3021	2	.26 x .13 x .14 x .32	Tin	..... *	\$ .15	\$ .12
233445	Molex	22-05-3031	3	.26 x .13 x .14 x .32	Tin	..... .29	.25	.19
233453	Molex	22-05-3041	4	.26 x .13 x .14 x .32	Tin	..... .35	.29	.25
233699	Molex	22-12-2044	4	.26 x .13 x .12 x .32	Gold	..... .49	.45	.39
348251	ValuePro	641216-4	4	.30 x .10 x .14 x .31	Gold	..... *	.19	.17
233461	Molex	22-05-3051	5	.26 x .13 x .14 x .32	Tin	..... .45	.35	.29
233470	Molex	22-05-3061	6	.26 x .13 x .14 x .32	Tin	..... .49	.39	.35
348277	ValuePro	641216-6	6	.30 x .10 x .14 x .31	Gold	..... .45	.39	.35
348315	ValuePro	4-641216-0	10	.30 x .10 x .14 x .31	Gold	..... *	.69	.65

★ Web Code: GBN

### Straight Friction Lock Headers

Part No.	Mfr.	Product No.	Pos.	Size (A"xB"xC"xD") *	Plating	1	10	100
232266	Molex	22-23-2021	2	.30 x .13 x .14 x .32	Tin	..... *	\$ .09	\$ .08
613931	AMP	640456-2	2	.30 x .10 x .14 x .31	Tin	..... *	.09	.08
233584	Molex	22-11-2022	2	.30 x .13 x .14 x .32	Gold	..... .29	.25	.19
879588	Molex	22-29-2021	2	.30 x .13 x .14 x .46	Gold	..... .29	.25	.19
232274	Molex	22-23-2031	3	.30 x .13 x .14 x .32	Tin	..... *	.10	.09
879271	Molex	22-27-2031	3	.30 x .13 x .14 x .46	Tin	..... .29	.25	.19
233592	Molex	22-11-2032	3	.30 x .13 x .14 x .32	Gold	..... .49	.45	.39
232282	Molex	22-23-2041	4	.30 x .13 x .14 x .32	Tin	..... *	.12	.10
879300	Molex	22-27-2041	4	.30 x .13 x .14 x .46	Tin	..... *	.15	.12
348074	ValuePro	641215-4	4	.30 x .10 x .14 x .31	Gold	..... .29	.25	.19
232291	Molex	22-23-2051	5	.30 x .13 x .14 x .32	Tin	..... *	.15	.12
348082	ValuePro	641215-5	5	.30 x .10 x .14 x .31	Gold	..... *	.19	.17
232303	Molex	22-23-2061	6	.30 x .13 x .14 x .32	Tin	..... .29	.25	.19
233621	Molex	22-11-2062	6	.30 x .13 x .14 x .32	Gold	..... .55	.49	.45
232320	Molex	22-23-2081	8	.30 x .13 x .14 x .32	Tin	..... .39	.35	.29
348111	ValuePro	641215-8	8	.30 x .10 x .14 x .31	Gold	..... .45	.39	.35
687914	Leoco	2571P09V000	9	.30 x .13 x .14 x .32	Tin	..... *	.19	.15
232346	Molex	22-23-2101	10	.30 x .13 x .14 x .32	Tin	..... .29	.25	.19



## KK® Series .100" (2.54mm) Female Housings

★ Web Code: LBN

- Contact resistance: 20mΩ max.
- Dielectric withstanding voltage: 1500VAC
- Insulation resistance: 50kMΩ
- Voltage: 250V

### Housing Material:

- Contact retention to housing: 8 lbs. min.
- Contact insertion force: 1.5 lbs. max.
- Housing: nylon, UL94V-0
- Operating temperature: 0 to 75°C



### Housing with Locking Ramp

			* Order in multiples of 10		
Part No.	Mfr. Part No.	Pos.	1	10	100
234704	22-01-2027 $\mathcal{R}$	2 .....	*	\$ .15	\$ .07
234712	22-01-2037 $\mathcal{R}$	3 .....	.29	.25	.19
234721	22-01-2047 $\mathcal{R}$	4 .....	.29	.25	.19
234739	22-01-2057 $\mathcal{R}$	5 .....	.35	.29	.19
234747	22-01-2067 $\mathcal{R}$	6 .....	.39	.35	.29
234771	22-01-2107 $\mathcal{R}$	10 .....	.59	.55	.39

### Housing w/ Locking Ramp & Polarizing Ribs

Part No.	Mfr. Part No.	Pos.	* Order in multiples of 10		
			1	10	100
234798	22-01-3027 <i>R</i>	2 .....	* \$	\$ .15	\$ .07
234801	22-01-3037 <i>R</i>	3 .....	.29	.25	.19
234819	22-01-3047 <i>R</i>	4 .....	.29	.25	.19
234827	22-01-3057 <i>R</i>	5 .....	.39	.35	.29
234835	22-01-3067 <i>R</i>	6 .....	.45	.39	.35
234851	22-01-3087 <i>R</i>	8 .....	.55	.49	.35
234878	22-01-3107 <i>R</i>	10 .....	.59	.55	.49

★ Web Code: **EPS**

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# Crimp Terminals, Housings & Headers

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## molex KK® Series .100" (2.54mm) Crimp Terminals

- Current: phosphor bronze – 4.0A max.; brass – 2.5A max.
- Insulation range: 0.062" (1.58mm) diameter max.
- Accommodates 22 to 30 AWG
- Material: 7364567/36501/234923/234931: brass; 2120495/736595/462969/463005: phosphor bronze

★ Web Code: JCT



### Bulk Packaged

Part No.	Mfr. Part No.	Plating	10	100	1000
736501	08-50-0113	Tin	\$.05	\$.04	\$.03
234923	08-50-0114	Tin	.06	.05	.04
234931	08-55-0102	15µ" gold	.15	.12	.11
736595	08-52-0123	Tin	.09	.08	.07
462969	08-65-0805	Tin (cat ear)	.09	.08	.07
2120495	2513T	Tin (cat ear)	.07	.06	.04
463005	08-65-0816	15µ" gold	.19	.15	.13

## KK® Series .100" (2.54mm) Pitch Crimp Terminal

### Crimp Terminal

- Female
- 22-30 AWG



Order in multiples of 10

Part No.	Mfr. Part No.	Plating	10	100	1000
736456	08-50-0005	Tin/copper	\$.15	\$.12	\$.09

## .100" (2.54mm) Pitch SL™ Wire-to-Board Crimp Housings

### Single Row

- Housing: black glass filled polyester, UL94V-0



### Version A, Non-polarized

★ Web Code: VDD

Part No.	Mfr. Part No.	Pos.	1	10	100
884301	50-57-9002	2	\$.25	\$.22	\$.15

### Version G, Positive Latch

\* Order in multiples of 10

Part No.	Mfr. Part No.	Pos.	1	10	100
884328	50-57-9402	2	\$.19	\$.15	\$.15
884344	50-57-9403	3	.25	.22	.15

### Female Crimp Terminals



Order in multiples of 10

Part No.	Mfr. Part No.	AWG	Plating	10	100
741685	16-02-0103	22-24	15µ" gold	\$.09	\$.08
741677	16-02-0086	22-24	Tin	.07	.06

## .118" (3.00mm) Micro-Fit Crimp Terminals

- A: phosphor bronze, tin
- B: phosphor bronze, 15µ" gold
- C: phosphor bronze, 30µ" gold



Order in multiples of 10

Part No.	Mfr.	Product No.	Type	AWG	10	100
337720	ValuePro	43030-0007	1A	20-24	\$.09	\$.08
883093	Molex	43030-0007	1A	20-24	.12	.09
337738	ValuePro	43030-0009	1B	26-30	.12	.09
337746	ValuePro	43030-0010	1A	20-24	.09	.08
337754	ValuePro	43030-0012	1C	26-30	.19	.15
337762	ValuePro	43031-0007	2A	20-24	.09	.08
883253	Molex	43031-0009	2C	20-30	.15	.11
337789	ValuePro	43031-0010	2A	26-30	.05	.04

## .156" (3.96mm) Headers, Housings and Crimp Terminals



- Wire-to-board applications
- End-to-end stackable styles
- Insulator: polyester, UL 94V-0
- Housing: nylon, UL 94V-0

★ Web Code: HHT

### Headers

\* Order in multiples of 10

#### Straight Friction Lock – Brass/Tin (Fig. 1)

Part No.	Mfr.	Product No.	Pos.	1	10	100
879861	Molex	26-60-4020	2	\$.15	\$.12	\$.12
231546	AMP	640445-2	2	.09	.07	.07
879887	Molex	26-60-4030	3	.19	.15	.15
231554	AMP	640445-3	3	.09	.07	.07
104792	ValuePro	LMH4	4	.15	.12	.12
879941	Molex	26-60-4060	6	.29	.25	.19
104846	ValuePro	LMH10	10	.15	.12	.12

#### Right Angle Friction Lock – Copper/Tin (Fig. 2)

Part No.	Mfr.	Mfr. Part No.	Pos.	1	10	100
232400	AMP	640389-6	6	\$.59	\$.55	\$.49

### Housings

#### With Locking Ramp (Fig. 3)

\* Order in multiples of 10

Part No.	Mfr.	Product No.	Pos.	1	10	100
463435	Molex	09-50-3031	3	\$.15	\$.12	\$.12
104433	ValuePro	7900F-3	3	.09	.08	.08
463443	Molex	09-50-3041	4	.15	.12	.12
236161	AMP	640250-4	4	.15	.12	.12
104716	ValuePro	7900F-4	4	.12	.09	.09
104724	ValuePro	7900F-5	5	.07	.05	.05
104732	ValuePro	7900F-6	6	.15	.12	.12
104766	ValuePro	7900F-10	10	.09	.07	.07
463523	Molex	09-50-3121	12	.35	.29	.25

# Use with crimp pin 78319, above

### Crimp Terminals

- Plating:
- A: brass/tin;
- B: phosphor bronze/tin



Order in multiples of 10

Part No.	Mfr.	Product No.	Plating	AWG	10	100
736481	Molex	08-50-0106	A	18-20	\$.06	\$.05
462774	Molex	08-50-0165	A	18-20	.08	.07
736544	Molex	08-50-0189	A	18-20	.06	.05
736552	Molex	08-52-0071	B	18-20	.05	.04
736561	Molex	08-52-0072	B	18-20	.08	.06
736587	Molex	08-52-0113	A	18-20	.06	.05
1960687	Molex	08-70-1031	A	18-24	.08	.06
248866	AMP	640706-1	A	18-24	.25	.19
248874	AMP	640706-2	A	18-24	.19	.15
248882	AMP	640707-1	A	18-24	.15	.12
248903	AMP	770522-1	B	18-24	.25	.19
78319	ValuePro	JS-5001-T	A	18-24	.05	.04

† Trifurcon \* Cat ear

## .156" (3.96mm) JST Type Housings and Terminals

- Material: 94V-0 nylon
- Current rating: 7A (AC/DC)
- Voltage rating: 250V (AC/DC)
- Insulation resis.: 1000MΩ min.
- Withstanding volt.: 1500VAC/min.
- Use with MeanWell power supplies USP-225, USP-350, LPS-100, PPS-125, LPP-150, PPS-200, PS-35, LPS-75 and LP-100

Housing (2124568)



### Housings

Order in multiples of 10

Part No.	Cross Ref. No.	Circuits	10	100
2124550	9396-03	3	\$.05	\$.04
2124568	9396-04	4	.08	.07
2124584	9396-05	5	.08	.07
2124592	9396-06	6	.09	.08
2124605	9396-08	8	.12	.10
2124613	9396-09	9	.15	.13
2124621	9396-12	12	.17	.15

### Crimp Terminal

- 18-22 AWG
- Tin-plated brass

Order in multiples of 10

Part No.	Cross Ref. No.	Description	10	100
2124630	96T	Female	\$.04	\$.03

### JST Crimp Tool

Part No.	Cross Ref. No.	1	5
227491	W-HT-1921	\$14.95	\$13.95

★ More .156" Housings Online — Enter Web Code CRH

## Tools for Micro-Fit Connectors

Part No.	Cross Ref. No.	Description	Length	1	5
338678	HT-225D	Crimp	8.25"	\$24.95	\$22.49
338669	11-03-0043	Extraction	3.0"	14.95	13.49

## Hand Tools for Mini-Fit Jr.™

Part No.	Cross Ref. No.	Description	Length	1	5
304928		Crimp tool wire range from 14-24 AWG, 8.5"L			
304936		Extraction tool, 3.5"L			
308030		Cuts & strips 14-24 AWG, 8.3"L			
227491		Cuts & strips 18-30 AWG, 8.3"L			

- 304928: Crimp tool wire range from 14-24 AWG, 8.5"L
- 304936: Extraction tool, 3.5"L
- 308030: Cuts & strips 14-24 AWG, 8.3"L
- 227491: Cuts & strips 18-30 AWG, 8.3"L

Part No.	Mfr.	Mfr. Part No.	1	5
304928	Molex	63811-1000	\$.49.95	\$44.95
304936	Molex	11-03-0044	19.95	18.95
308030	GC/Waldom	W-HT-1919	14.95	13.95
227491	GC/Waldom	W-HT-1921	14.95	13.95

## The Best Warranty in the Industry

All Jameco purchases are guaranteed for a full 90 days and even longer for Jameco house brands.

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

## .165" (4.19mm) Mini-Fit Jr.™ Type Terminals

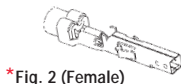
**molex**

**JAMECO ValuePro**

**\*Web Code: CBX**



\*Fig. 1 (Male)



\*Fig. 2 (Female)

- \*Type: A: Tin over nickel over brass  
B: 15µ" gold over nickel over brass  
C: 30µ" gold over nickel over brass  
D: Tin over nickel over phosphor bronze  
E: Brass or copper (post plated tin over nickel)  
F: 15µ" gold over nickel over phosphor bronze  
G: 30µ" gold over nickel over phosphor bronze  
H: Brass (post plated tin over nickel)  
I: Phosphor bronze (pre-plated gold over nickel)

### 22-28 AWG

\* Order in multiples of 10

Part No.	Mfr.	Product No.	Type*	1	10	100
304872	Molex	39-00-0047	2A .... *	\$ .14	\$ .10	
365798	ValuePro	39-00-0088	1C .... *	.19	.15	
401841	ValuePro	39-00-0098	1B .... *	.09	.07	
401752	ValuePro	39-00-0126	2D .... *	.09	.08	
365915	ValuePro	39-00-0166	2C .... *	.19	.15	
401728	ValuePro	39-00-0172	2B .... *	.15	.12	
304899	Molex	39-00-0184	2I .... *	.39	.35	.29
365907	ValuePro	39-00-0184	2G .... *	.12	.09	
401787	ValuePro	39-00-0197	2F .... *	.09	.07	

### 18-24 AWG

\* Order in multiples of 10

Part No.	Mfr.	Product No.	Type*	1	10	100
304733	Molex	39-00-0039	2A .... *	\$ .07	\$ .06	
304725	Molex	39-00-0041	1A .... *	.09	.08	
401859	ValuePro	39-00-0076	1B .... *	.39	.35	.29
401824	ValuePro	39-00-0121	1A .... *	.09	.08	
365886	ValuePro	39-00-0164	2C .... *	.19	.15	
401736	ValuePro	39-00-0170	2B .... *	.39	.35	.29
365851	ValuePro	39-00-0182	2G .... *	.19	.15	
401795	ValuePro	39-00-0195	2F .... *	.15	.12	
401701	ValuePro	39-00-0208	2A .... *	.09	.07	
304821	Molex	30490-1012	1I .... *	.65	.59	.55
304792	Molex	30490-2012	1I .... *	.19	.15	
884248	Molex	44476-1112	2E .... *	.05	.04	
304776	Molex	44476-1112	2I .... *	.19	.15	
304784	Molex	44485-1212	2I .... *	.49	.45	.39

• Sold in 4000 piece reel

Part No.	Mfr.	Mfr. Part No.	Type*	4000
307993	Molex	39-00-0038	2A .....	\$ .03
307985	Molex	39-00-0040	1A .....	.03

### 16 AWG

\* Order in multiples of 10

Part No.	Mfr.	Product No.	Type*	1	10	100
304709	Molex	39-00-0096	1H \$ .49	\$ .45	\$ .35	
365704	ValuePro	39-00-0096	1C .... *	.12	.09	
401867	ValuePro	39-00-0099	1B .... *	.09	.07	
401832	ValuePro	39-00-0125	1A .... *	.09	.08	
365835	ValuePro	39-00-0168	2C .... *	.35	.29	.25
365827	ValuePro	39-00-0186	2G .... *	.12	.09	
401808	ValuePro	39-00-0199	2F .... *	.09	.07	
401710	ValuePro	39-00-0212	2A .... *	.06	.05	
401779	ValuePro	39-00-0218	2D .... *	.05	.04	
304670	Molex	44476-3112	2H .... *	.19	.15	
304661	Molex	44478-3112	1E .... *	.19	.15	

## .100" (2.54mm) Keyed Shrouded Headers & Connectors

**CD-ROM 4-Pin**

**\*Web Code: XAW**

- Low profile
- Voltage rating: 250VAC/DC
- Current rating: 3A AC/DC
- Insulation res.: 1000MΩ min.
- Pin material: tin-plated brass
- Connector material: PBT, 30% glass
- Header material: PBT + 30% glass
- Withstanding volt.: 1000VAC/ 1 min.
- Recommend crimp tool

Part No.	Description	1	10	100
152741	Straight header .....	\$ .49	\$ .45	\$ .39
152726	Rt. angle header .....	.59	.55	.49
152734	Single w/ latch .....	.49	.45	.39
181673	Female pins .....	*	.05	.04

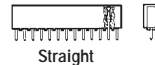
† P/N 152734 requires 4 pins (P/N 181673)

**JAMECO ValuePro**

## .100" (2.54mm) Female Header Receptacles



Right Angle



Straight

- Gold-plated contacts († tin-plated)

**\*Web Code: RAH**

### Single Row Right Angle (Side Entry)

Part No.	Mfr.	Contacts	1	10	100
2100321	ValuePro	8 .....	\$ .49	\$ .45	\$ .35

### Double Row Right Angle (Side Entry)

Part No.	Mfr.	Contacts	1	10	100
71159	ValuePro	20 .....	\$1.19	\$1.05	\$ .85

### Single Row Straight (Top Entry)

Part No.	Mfr.	Contacts	1	10	100
70755	ValuePro	8 .....	\$ .45	\$ .35	\$ .29
200783	ValuePro	12 .....	.55	.45	.39
308592	ValuePro	16 .....	.65	.55	.49
308567	ValuePro	20 .....	.75	.69	.55

### Double Row Straight (Top Entry)

Part No.	Mfr.	Contacts	1	10	100
70721	ValuePro	16 .....	\$ .85	\$ .75	\$ .65
70827	ValuePro	20 .....	.95	.85	.75
105057	ValuePro	30 .....	1.09	.95	.85
163862	ValuePro	34† .....	.95	.85	.75
111705	ValuePro	40 .....	1.29	1.15	.95

## .100" (2.54mm) Low Profile Male Shrouded Headers

### Straight Double Row

- Rating: 1A (max.) @ 250VDC
- Contact resistance: 15mΩ max.
- Contact: phosphor bronze, gold plated
- Features: UL recognized CSA certified; 0.025" square post mates with sockets on 0.100" x 0.100" grid
- Use with IDC socket connectors, right



68180

**\*Web Code: JAH**

Part No.	Cross Ref. No.	Pos.	1	10	100
67812	7110-10SG	10 .....	\$ .49	\$ .45	\$ .39
2100304	7110-14SG	14 .....	.49	.45	.39
68180	7110-16SG	16 .....	.49	.45	.39
68292	7110-20SG	20 .....	.55	.49	.39
68372	7110-26SG	26 .....	.55	.45	.35
68583	7110-34SG	34 .....	.89	.69	.49
181105	7110-40SG	40 .....	1.29	.99	.79
2100312	7110-50SG	50 .....	1.49	1.15	.89

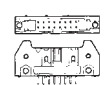
**\*.200" Drive Power Connectors & Crimp Terminals Available Online — Enter Web Code ABU**

## .100" (2.54mm) Straight Male Headers

### Double Row w/ Standard Latch

**\*Web Code: VAQ**

- 0.1" contact center
- Mount vertical
- Keying slot
- Use w/ IDC socket connectors, right below



71830

Part No.	Mfr.	Pins	1	10	100
117664	ValuePro	10-pin .....	\$ .65	\$ .55	\$ .49
1928169	On Shore	16-pin .....	.49	.39	.29
71830	ValuePro	20-pin .....	.95	.85	.75
2076375	CW Ind.	20-pin .....	.95	.85	.65
71933	ValuePro	26-pin .....	1.29	1.15	.95
1928177	On Shore	34-pin .....	.65	.59	.49
1928185	On Shore	34-pin .....	.35	.29	.25
72216	ValuePro	50-pin .....	1.49	1.35	1.19

† Right angle

**JAMECO ValuePro**

## .100" & 2mm IDC Socket Connectors

### Double Row

- Current rating: 1A
- Mates with 2 rows of .025" sq. or dia. posts on patterns of .100" centers (male headers, pg 68)
- Contact material: phosphor bronze w/ 1µ" gold flash on mating area, tin plated on termination area
- Industry standard IDC socket (plastic)
- Temp. rating: -55°C to +105°C
- Use crimping P/N 73252, below left



32564

**\*Web Code: QAE**

### Polarized

Part No.	Cross Ref. No.	Contacts	1	10	100
32492	8000-10	10 .....	\$ .29	\$ .25	\$ .19
153948	8000-14	14 .....	.35	.29	.25
119467	8000-16	16 .....	.39	.35	.29
32522	8000-20	20 .....	.45	.39	.35
32564	8000-26	26 .....	.49	.45	.39
32644	8000-34	34 .....	.55	.49	.45
32679	8000-40	40 .....	.59	.55	.49
100386	110-44	44 (2mm) .....	.29	.25	.19
32708	8000-50	50 .....	.65	.59	.55
32759	8000-60	60 .....	.89	.79	.69

### Non-Polarized

\* Order in multiples of 10

Part No.	Cross Ref. No.	Contacts	1	10	100
138376	8000-10NE	10 .....	\$ .35	\$ .29	\$ .25
138325	8000-20NE	20 .....	.45	.39	.35
138333	8000-26NE	26 .....	.35	.29	.25
138341	8000-34NE	34 .....	.39	.35	.29
138350	8000-40NE	40 .....	.45	.39	.35

**\*Universal Connectors Online — Enter Web Code GAU**

### Ribbon Cable, see page 55



## IDC Connector Crimping Tool

- Use for IDC socket connectors
- Crimping distance: 27.5mm to 6mm (with attachment)
- Size: 9.2"L x 3.0"W
- Weight: 1.1 lbs.



Part No.	Mfr.	Part No.	1	10	25
73252	HT214	.....	\$15.95	\$14.39	\$12.95

**\*Four Wall Headers Online — Enter Web Code LDV**

**\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above**



# Connectors, Headers & Plugs

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

## .100" (2.54mm) IDC Ribbon Connectors

### Center and Military Polarized Receptacles

- Accepts 28-26AWG solid or stranded cables
- Contact current rating: 1A continuous
- Housing, cover: 94V-0 rated thermoplastic, black
- Contacts: phosphor bronze, duplex plating

### Contact Plating:

- AMP 3M**
- A: 30µ" gold, 50µ" min. tin  
 B: 15µ" gold, 100µ"-200µ" tin  
 C: 15µ" gold, 100-200µ" tin lead, all over 50µ" min. nickel  
 D: 30µ" gold, 100-200µ" bright tin lead, all over 50µ" min. nickel



\*Web Code: RDM



Part No.	Mfr.	Mfr. Part No.	Pos.	Plating	1	10	100
901642	AMP	1658622-1	10	A	\$1.49	\$1.35	\$1.19
525309	AMP	746285-1	10	C	1.19	1.05	.95
742215	AMP	1658621-1	10	B	.95	.85	.75
1578082	3M	89110-0101	10	A	1.19	1.05	.95
525317	AMP	746285-2	14	C	1.39	1.25	.95
525325	AMP	746285-3	16	C	1.45	1.29	1.05
1578111	3M	89116-0101	16	A	.95	.85	.75
525333	AMP	746285-4	20	C	1.49	1.35	1.09
525413	AMP	746288-6	26	D	1.49	1.35	1.19
525341	AMP	746285-6	26	C	1.49	1.35	1.19
525350	AMP	746285-8	34	C	1.79	1.49	1.29
525368	AMP	746285-9	40	C	1.95	1.75	1.55
525376	AMP	1-746288-0	50	D	2.85	2.55	2.29

### Strain Relief for NOVO Receptacles

Order in multiples of 10

Part No.	Mfr.	Mfr. Part No.	Pos.	10	100
526045	AMP	499252-5	10	\$1.19	\$1.15

## PANAVISE Arbor Press, IDC Kit and Cable Cutter

### 2082601: 502 Arbor Press

- Precision 1/4 ton (227kg) pressure
- 4 adjustable nylon gibs provide exceptional arm control
- Base footprint: 3.7" x 7" with 4 counter sunk holes • 8" arm



### 2082610: 506 IDC Kit

- For low volume mass termination (up to 64-pin conductor wire) of various IDC connectors on ribbon cables
- For independent repair technicians and in-house service



### 27182: 507 Cable Cutter

- Perfect right angle cut
- Accommodates up to 68-pin, 14 AWG, 3.22"W flat ribbon cable
- Spring loaded blade arm



Part No.	Mfr.	P/N	Description	1	5
2082601	502		Arbor press	\$174.95	\$159.95
2082610	506		IDC kit	58.95	51.95
27182	507		Cable cutter	64.95	59.95
27203	510		Base plate	29.95	27.95

## .100" IDC DIP Flat Cable Plugs

\*Web Code: KEF

- Mates with standard 14, 16, 20, 24, 26, 28 & 40-pin DIP sockets with 0.1" spacing
- Uses 28 AWG flat ribbon cable, pg 55
- Plastic with gold-plated contacts • Current rating: 1A



Part No.	Cross Ref.	Width	Contacts	1	10	100
42658	8200-14	0.3"	14	\$.45	\$.39	\$.35
42674	8200-16	0.3"	16	.55	.49	.45
104097	8200-20	0.3"	20	.65	.55	.49
42691	8200-24	0.6"	24	.75	.65	.55
99670	8200-28	0.6"	28	.85	.75	.65
42712	8200-40	0.6"	40	.95	.85	.75

## .100" IDC Plug Connector Double Row

- Shrouded header without mounting ears • Plastic
- Contact: gold-plated phosphor bronze
- Use with IDC socket for connectors, pg 71

JAMECO EXCLUSIVE

Part No.	Cross Ref.	Contacts	1	10	100
29217	8400-50	50	\$1.49	\$1.35	\$1.09

## IDC Centronics Connector

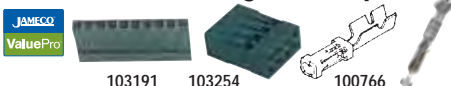
\*Web Code: VAJ

- Contact material: gold plated phosphor bronze; plastic casing
- Current rating: 1 amp
- Temp. rating: -55°C to +105°C
- Use 73252 IDC crimping tool, pg 71



Part No.	Description	1	10	100
13849	36-pin male	\$1.75	\$1.59	\$1.45

## .100" (2.54mm) Non-Polarized Connector Housings & Crimp Pins



- Mates with 0.025" square post on pattern of 0.100" centers (male headers, pg 68)
- Current rating: 1A • Housing material: plastic
- Pin material: brass/tin plated • 26-22 AWG
- Temperature rating: -55°C to +105°C
- Use crimper P/N 159266, pg 151

\*Web Code: YAL

### Single Row

\* Order in multiples of 10

Part No.	Cross Ref. No.	Contacts	1	10	100
100812	SCH2	2	\$.15	\$.12	\$.12
157383	SCH3	3	.29	.25	.22
100803	SCH4	4	.29	.25	.19
163686	SCH5	5	.35	.29	.25
103212	SCH6	6	.39	.35	.29
103203	SCH8	8	.45	.39	.35
103191	SCH10	10	.49	.45	.39
103182	SCH20	20	.55	.49	.45
103158	SCH36	36	.59	.55	.49

### Double Row

\*Web Code: SAM

Part No.	Cross Ref. No.	Contacts	1	10	100
103254	DCH8	8	\$.45	\$.39	\$.35
157421	DCH10	10	.49	.45	.39
157438	DCH14	14	.49	.45	.39
103238	DCH16	16	.49	.45	.39
103230	DCH20	20	.55	.49	.45
157462	DCH40	40	.49	.45	.39
157472	DCH50	50	.65	.59	.55

### Crimp Pins for Single/Double Row Housings

- Order in multiples of 10

\*Web Code: XAL

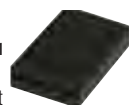
Part No.	Cross Ref. No.	Description	10	100	500
100766	FCH1	Female pin	\$.15	\$.13	\$.09
145358	MCH1	Male pin	.19	.15	.12

## AMPMODU™ .100" (2.54mm) Receptacle Housing & Contacts

### Single Row, Non-Polarized, Crimp Snap-In (MOD IV)

526871

- No PC with UMN
- Black thermoplastic, flame retardant



Part No.	Mfr.	Part No.	Pos.	Width	1	10	100
526871	87499-3	2	0.205"	.....	\$.95	\$.85	\$.75
526889	87499-5	3	0.305"	.....	.95	.85	.75

### Standard Pressure Receptacle Contacts (MOD IV)

- Material: phosphor bronze
- No PC with UMN
- Plating:

- 527419: 15µ" gold in contact area, 100µ" - 200µ" bright tin lead, all over 50µ" nickel
- 527486: Pre-plated 50µ" - 150µ" bright tin
- 895844: Short point; 22-26 AWG; 50µ" nickel entire area; 15µ" gold in contact area

\* Order in multiples of 10

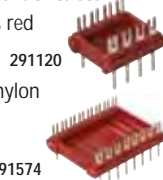
Part No.	Mfr.	Part No.	1	10	100
527419	87523-6	.....	\$.35	\$.29	\$.25
527486	1-87523-6	.....	.25	.22	.15
895844	104480-3	.....	*.15	.12	

## ARIES DIP Headers

\*Web Code: XBS

### Series 600 Headers w/ Coined Contacts

- Standard cover/body material is red UL 94-HB glass filled nylon
- High temperature cover/body material is black UL 94V-0 4/6 nylon
- Contact plating: 100µ" min., tin
- Contact rating: 2A
- Operating temperature: 221°F (105°C) max.
- Fork contacts: accept up to .025" (.64mm) dia. leads



Part No.	Mfr.	Part No.	Pos.	Width*	1	10	100
291120	08-600-10	8	0.3"	.....	\$1.29	\$1.15	\$.99
291312	14-600-10	14	0.3"	.....	1.65	1.49	1.29
291574	16-600-10	16	0.3"	.....	1.79	1.65	1.45
291996	24-600-10	24	0.6"	.....	2.79	2.55	2.25

\* Center to center pin width

## CA .100" DIP Header Plugs

- Gold-plated leads
- Header plugs: keyed corner to indicate pin 1
- U-shaped pin termination for easy component attachment



\*Web Code: XBS

- Lead length: 0.188" • 0.1" spacing between leads

Part No.	Mfr.	Part No.	Width	Pins	1	10	100
104337	08P-2	0.3"	8	.....	\$.95	\$.85	\$.75
37130	14P-2	0.3"	14	.....	1.39	1.25	.99
37331	16P-2	0.3"	16	.....	1.95	1.75	1.49

## JAMECO ValuePro PCB Centronics Connector

- Solder-type contacts
- Space between rows: 0.164"
- Space between pins: 0.1"
- Metal body • PC mount



\*Web Code: VAJ

Part No.	Description	1	10	100
72151	36-contact F, rt angle	\$2.95	\$2.49	\$1.85

\*PCB Connectors Online — Enter Web Code EEN

\*Keyboard Adapters Online — Enter Web Code RAV

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

## .100" MTE AMPMODU Pin Housings

- Single row
- Latched polarization
- Mating lock connector
- 0.100" center line
- Black thermoplastic, UL94V-0

**AMP**



Part No.	Mfr.	Part No.	Pos.	1	10	100
496392	103653-1	2	.....	\$.35	\$.29	\$.25
496405	103653-2	3	.....	.39	.35	.29
496413	103653-3	4	.....	.39	.35	.29

## PC Card-Edge Connectors

- Fits all PC boards
- 0.054" to 0.070" thick



### Solder Eyelet 0.140" Spacing Between Rows

- Contact centers: 0.156" • With mounting ears

Part No.	Mfr.	Positions	1	10	100
39117	ValuePro	22/44 .....	\$3.95	\$3.55	\$3.19

### Solder Tail 0.200" Spacing Between Rows

- Contact centers: 0.100" • W/o mounting ears • Tin

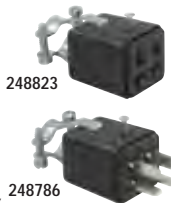
Part No.	Mfr.	Positions	1	10	100
40694	ValuePro	31/62 (PC/AT)	... \$\$.55	\$.49	\$.45
1945049	Various	50/100 .....	..... .75	.69	.59

\*Card Edge Connectors Online — Enter Web Code XEE

## Jones Plugs and Sockets

### Series 300 Multiple-Density Solder-Eyelet Connectors

- Insulation material: molded monoblock, black phenolic
- Contact material: plug – brass; socket – phosphor bronze
- Contact plating: cadmium
- Current rating: 10 amps
- Operating voltage: 250VAC max.
- Contact resistance: 16mΩ max.
- Hood material: UL 94V-0 rated thermoplastic



### Sockets with Hood and 180° Clamp

\*Web Code: WBP

Part No.	Mfr.	Part No.	Contacts	1	10
248807	S-302H-CCT	2	.....	\$3.35	\$2.69
248823	S-304H-CCT	4	.....	4.95	4.25
248831	S-306H-CCT	6	.....	5.79	4.79

### Plugs with Hood and 180° Clamp

Part No.	Mfr.	Part No.	Contacts	1	10
248760	P-302H-CCT	2	.....	\$3.25	\$2.95
248786	P-304H-CCT	4	.....	3.95	3.49
248794	P-306H-CCT	6	.....	4.49	3.95
445982	P-315-CCT	15	.....	6.95	5.95

### Series 2400 Multiple-Density Solder-Eyelet Connector

\*Web Code: LCA

- Current rating: 15A
- Current resistance: 1mΩ max.
- Operating voltage: 250VAC
- Plug prongs are 0.250"W x 0.55"H.
- For use in cable-to-cable and cable-to-panel applications
- Insulation material: molded monoblock, general purpose phenolic, black
- Contact plating: cadmium
- Contact material: plug-brass; socket-phosphor bronze
- Hood material: formed metal with dielectric liner



### Plug with Hood and 180° Clamp

Part No.	Mfr.	Part No.	Contacts	1	10	100
428197	P-2408H-CCT	8	...	\$10.95	\$9.95	\$8.95

## FT Connector Assembly SFP

### Small Form-Factor Pluggable

- Right angle 0.8mm pitch
- Contact: phosphor bronze
- Housing: high-temperature LCP UL94V-0 rated, black
- Plating: 0.38μ" min. gold in contact area, 13μ" min. gold in solder area, 38μ" min. nickel underplate



Part No.	Mfr.	Part No.	Positions	1	10	100
741010	1367073-1	20	.....	\$1.49	\$1.35	\$1.25

**JAMECO**  
ValuePro

## Mini DIN & DIN Panel Mount Female Sockets

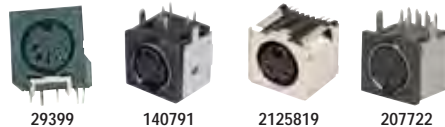
- With solder lugs
- Metal body



\*Web Code: FAB

Part No.	Cross Ref. No.	Description	1	10	100
2076754	MDPM5	5-pin mini DIN ..	\$.65	\$.59	\$.55
2076762	MDPM6	6-pin mini DIN ..	1.29	1.15	.95
2076771	MDPM8	8-pin mini DIN ..	1.19	.99	.89
15844	DINJ5	5-pin DIN .....	.95	.75	.65
15852	DINJ6	6-pin DIN .....	1.05	.85	.75
15861	DINJ8	8-pin DIN .....	1.19	.95	.79

## Mini-DIN & DIN PC Mount Female Sockets



- Set back: 0.5"
- 119475: Plastic/metal body
- 29399: Plastic body

\*Web Code: DMS

### Unshielded (DIN) – Right Angle

Part No.	Product No.	Description	1	5	25
29399	RD5	5-pin DIN .....	\$ .69	\$ .59	\$ .45

### Shielded (Mini DIN & DIN) – Right Angle

140791	MDR4S	4-pin mini DIN	\$ .35	\$ .29	\$ .25
2125819	MXS4 (SMT)	4-pin mini DIN	..49	.45	.39
2076720	MDR5S	5-pin mini DIN	..49	.45	.39
119475	MDR6S	6-pin mini DIN	..89	.79	.69
207722	MDR8S	8-pin mini DIN	..89	.79	.69
2076746	MDR9S	9-pin mini DIN	..89	.79	.69
2077811	DRA5S	5-pin DIN .....	.65	.59	.49
29410	RD8	8-pin DIN .....	.65	.59	.49

### Unshielded (DIN) – Straight

**ADAM TECH**

- Operating voltage: 20VDC max.
- Current rating: 2A max.
- Contact plating: tin over copper



Part No.	Mfr.	Part No.	Description	1	10	100
2114132	DJN-003-B	3-pin DIN	.....	\$.49	\$.45	\$.39
2114141	DJN-004-B	4-pin DIN	.....	.55	.49	.45
2114159	DJN-005-B	5-pin DIN	.....	.59	.55	.49
2114167	DJN-006-B	6-pin DIN	.....	.65	.59	.55
2114175	DJN-007-B	7-pin DIN	.....	.69	.65	.59
2114183	DJN-008-B	8-pin DIN	.....	.75	.69	.65

## Mini-DIN & DIN Plugs & Receptacles







**JAMECO**  
ValuePro

\*Web Code: DAV



- Solder barrels w/ strain relief
- See pg 54 for cable

**JAMECO**  
EXCLUSIVE

Part No.	Pins	Type	1	10	100
142280	4	Mini DIN plug 	\$.75	\$.69	\$.59
142262	6	Mini DIN plug 	.95	.85	.75
111878	8	Mini DIN plug 	1.09	.89	.75
177236	8	Mini DIN receptacle	.75	.65	.59
15879	5	DIN plug 	.55	.45	.35
180873	5	DIN receptacle	.75	.59	.55
15887	6	DIN plug 	.65	.49	.45
15895	8	DIN plug 	.69	.55	.49

## PS/2 – USB Adapter

This adapter allows you to use your PS/2 compatible mouse and keyboard as USB compatible devices.

- USB - A Male to two PS/2 female connectors
- Color coded PS/2 connectors for keyboard & mouse



Part No.	Length	Housing	1	5	25
645351	13"	USB adapter ....	\$8.95	\$8.49	\$7.95

## IEEE 1394 Firewire Connectors



- Operating voltage: 30VAC
- Current rating: 1A
- Insulation resistance: 100MΩ
- Rating: UL94V-0 • Single port
- Mounting style: through hole (except P/N 2096333 – surface mount)

**ADAM TECH**

Part No.	Mfr. Part No.	1	10	100
2096317	FWC-C-S-RA <del>1</del> .....	\$ .39	\$ .35	\$ .29
2096333	FWC-C-S-RA-SMT <del>1</del> .....	.49	.45	.35
2096368	FWC-C-S-RU <del>2</del> .....	.49	.45	.39
2096376	FWC-C-S-VT <del>3</del> .....	.39	.35	.29

1 Right angle 2 Right angle, upright 3 Vertical

## Computer Card Brackets

- For securing cards into bus slots
- Fits PC/XT/AT cases
- Length: 4.75"
- See pg 63 for DB connectors



Part No.	Description	1	10	100
11755	Blank back panel <i>B</i> .....	\$ .95	\$.85	\$.75
101733	For DB25 connector .....	.29	.25	.19
101831	For DB9/DB25 conn. <i>B</i> .....	.75	.69	.59

## IEEE Firewire Cables

See page 175



\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## USB-A & B Connectors

★ Web Code: DAZ

### 1.0 & 2.0 Female Connectors

• PC mount right angle with board locks

\* Order in multiples of 10

Part No.	Mfr.	Product No.	Description	1	10	100
2096288	Adamtech	MUSB-AB-S-RA-TSMT	Mini USB-A, right angle, true surface mount	\$.49	\$.45	\$.39
2096190	Adamtech	USB-A-S-RA-SMT	USB-A, right angle, surface mount	.39	.35	.29
2097002	Adamtech	USB-A-S-RU-TH	USB-A, right angle upright, terminals horizontal	.39	.35	.29
2096211	Adamtech	USB-A-D-VT	USB-A, dual port, vertical	.45	.39	.35
2096181	Adamtech	USB-A-S-RA	USB-A, right angle	.39	.35	.29
2096202	Adamtech	USB-A-S-RU	USB-A, right angle upright	.49	.45	.39
2097011	Adamtech	USB-A-S-VT	USB-A, vertical	.29	.25	.19
161024	ValuePro	1040	USB-A 1.0	.89	.79	.69
2076551	KobiConn	UAR64-8W2100	USB-A 2.0, dual port	.95	.79	.49
2114263	Adamtech	MUSB-B4-S-RA-TSMT	Mini USB-B, right angle, true surface mount	.59	.55	.49
2096261	Adamtech	MUSB-B5-S-RA-SMT	Mini USB-B, right angle, surface mount	.75	.65	.59
2096245	Adamtech	USB-B-S-RA	USB-B, right angle	.29	.25	.19
2097029	Adamtech	USB-B-S-VT	USB-B, vertical	.39	.35	.29
2097037	Adamtech	USB-B-VT-TSMT	USB-B, vertical, true surface mount	.95	.85	.75
841053	AMP	292304-1	USB-B	1.49	1.35	1.19
2096253	Adamtech	USB-B-S-RA-SMT	USB-B, right angle, surface mount	.49	.45	.39
230958	ValuePro	USB-B-S-RA-WT	USB-A 2.0, right angle, white insulator	.95	.89	.79
159724	ValuePro	20-P025G	Male crimp pin for USB 1.0	*	.07	.05
230965	ValuePro	TATBA000K	Male crimp pin for USB 2.0	*	.07	.05



## ADAM TECH

## Displayport Receptacles and Plugs

★ Web Code: DPP

Displayport receptacles & plugs are royalty free products that can be used in any application where an HDMI connection was previously required.

• 15µ gold plating



Part No.	Mfr. Part No.	Description	Type	Mounting Style	1	5	100
2114191	DPC-F-SD-15	Displayport, receptacle, right angle	Solder	Through hole	\$2.49	\$2.25	\$1.95
2114204	DPC-F-S-RA-P-15	Displayport, receptacle, right angle	DIP	Through hole	2.25	2.09	1.89
2114212	DPC-F-S-RA-SMT-P-15	Displayport, receptacle, right angle	SMT	Surface mount	2.25	2.09	1.89
2114247	MDPC-S-RA	Mini displayport, receptacle, right angle	DIP	Through hole	1.95	1.75	1.59
2114255	MDPG-PLUG	Mini displayport, plug	Solder	Plug	4.95	4.49	3.95

## Panel Bracket Cable Assemblies

- Standard back panel bracket
- Length: 12"
- Ribbon cable with header connector

★ Web Code: RAX

355688: 1 serial port  
149623: 1 parallel port



Part No.	Description	1	10	100
355688	DB9M to 10-pin header F	\$3.95	\$3.49	\$2.95
1952265	DB9F to 10-pin header F	1.95	1.75	1.49
149623	DB25F to 26-pin header F	4.49	3.95	3.49

## SCSI Adapter

125241: 50-pin ribbon header to HPDB50 female SCSI II

Part No.	Description	1	5	25
125241	50-pin header to HPDB50 F	\$4.69	\$4.29	\$3.89



## D-Sub 9-Pin to 25-Pin Serial Adapters

- For use in AT or other computer systems that have 9-pin D-sub serial ports

664296: Thumbscrews on both sides

10321: For PC/XT systems with DB25 serial ports.

163740/153576: For PC/XT systems with DB25 serial ports.



★ Web Code: AAA



## Slim-Line D-Sub Gender Changers



### For Confined Applications!

★ Web Code: YAB

These revolutionary slim-line gender changers are only 0.69" wide, eliminating the space problems caused by standard gender changers. When plugged into your existing cable, they add only 0.44" to the cable. All-metal cases.

- Captive locking screw (male)
- Captive locking nut (female)
- Tin plated shells
- Grounding tangs (male)

Part No.	Description	1	10	100
10305	DB9 F to DB25 M	\$3.15	\$2.65	\$1.95
664296	DB9 M to DB25 M	.95	.85	.75
10321	DB9 M to DB25 F	4.49	3.95	3.65
163740	DB9 M to DB25 F, thumbscrews on DB9 side only	1.49	1.35	1.19
153576	DB9 M to DB25 F, thumbscrews on DB25 side only	1.95	1.75	1.59

Part No.	Description	1	10	100
18498	9-pin male to male	\$2.49	\$2.25	\$1.95
18489	9-pin female to female	2.49	2.25	1.95
119320	15-pin female to female HD	2.95	2.65	2.39
119301	15-pin male to male HD	2.95	2.65	2.39
18447	25-pin male to male	2.95	2.65	2.39
18420	25-pin female to female	2.95	2.65	2.39
170085	25-pin male to female (pass thru)	2.95	2.65	2.39

## Full Handshaking Null Modem Adapter

Self-contained null-modem (cross-over) adapters. Change any standard straight cable into a null cable quickly and easily.

- Internal pin configuration:  
1-1, 2-3, 3-2, 4-5, 5-4, 6-20, 20-6, 7-7, 8-20

Part No.	Description	1	10	100
17224	DB25 F to DB25 F	\$3.49	\$3.15	\$2.85



## D-Sub Gender Changer

- Standard 9 and 25-pin D-sub male and female gender changers for interfacing two cables or connectors of the same gender

★ Web Code: VAB



Part No.	Description	1	10	100
16643	D-sub 9-pin female	\$1.49	\$1.35	\$1.19



Look for pricing shaded in blue  
[Jameco.com/MakesCents](http://Jameco.com/MakesCents)



## ARIES Low Profile ZIF Sockets

Series 526

- Body: UL 94V-0 glass-filled polyester thermoplastic
- Beryllium copper alloy spring tempered contacts w/ 200µ" (5.08µm) tin plating
- Contact res.: 10mΩ max.
- Breakdown voltage: 1000VAC min.
- Center pins: .600" (15.24mm)
- Operating temp.: -67°F to 221°F (-55°C to 105°C)
- Suggested PCB hole size: .035"Dia. (0.89mm)



102745  
★ Web Code: UBX

Part No.	Mfr. P/N	Pins	L" x W"	1	5	25
296789	24-526-10	24	1.45 x .75	\$6.95	\$6.29	\$5.69
102745	28-526-10	28	1.64 x .75	7.95	7.15	6.45
102753	40-526-10	40	2.24 x .75	9.75	8.79	7.89

## ARIES SOIC/SOJ to DIP Adapters

- Board material: 0.062" thick FR-4 w/ 1 oz. copper traces on both sides
- Brass alloy pins with 200µ" (5.08µm) min. tin plating
- Operating temperature: 221°F (105°C) max.
- Suggested PCB hole size: 0.028"Dia. (0.71mm)
- Center pins: 0.300" (7.62mm)

★ Web Code: YBS



291292

Part No.	Mfr. P/N	Pins	L" x W"	1	10	100
291208	08-350000-11RC	8	.400 x .46	\$5.95	\$5.35	\$4.79
291292	14-350000-11RC	14	.700 x .45	5.95	5.39	4.79
291515	16-350000-11RC	16	.800 x .45	6.59	5.95	5.39
291980	24-350000-11RC	24	1.20 x .45	6.95	6.29	5.69

## ARIES Series 800 Vertisocket

With Bifurcated Contacts

- Body material: UL 94-HB glass filled nylon
- Phosphor bronze spring tempered bifurcated contacts
- Contact current: 1.5A
- Contact plating: 100µ" (2.54µm) tin or 10µ" (.254µm) gold
- Suggested PCB hole size: 0.044"Dia. (1.12mm)



Part No.	Mfr. P/N	Pins	L" x W"	1	10	100
291485	14-823-90	14	1.4 x .39	\$2.49	\$2.29	\$1.95

## ARIES High Temp. Universal ZIF Test Sockets

Series 6554

- Accepts devices on .300" to .600" (7.62mm to 15.24mm) centers
- -10: 100µ" tin over 50µ" nickel; -11: 10µ" gold over 50µ" nickel
- Operating temperature: -10: 221°F (105°C) – tin plating -11: 302°F (150°C) – gold plating
- Socket body: UL 94V-0 glass-filled PPS
- Beryllium copper contact plating
- Stainless steel handle
- Insulation res.: 1000MΩ
- Dielectric withstanding voltage: 1000VAC



295162  
★ Web Code: AAN

Part No.	Mfr. P/N	Pins	L" x W"	1	5	25
103992	24-6554-10	24	1.8 x 0.9	\$7.75	\$6.95	\$6.29
104003	28-6554-10	28	2.0 x 0.9	8.95	7.95	6.95
104012	32-6554-10	32	2.1 x 0.9	10.95	9.95	8.95
104030	40-6554-10	40	2.5 x 0.9	12.95	11.95	10.95
295162	28-6554-11	28	1.4 x 0.9	14.95	13.95	12.95
295209	32-6554-11	32	1.6 x 0.9	11.95	10.95	9.95
295233	40-6554-11	40	2.0 x 0.9	15.95	14.49	12.95

## ARIES Universal SOIC to .600" DIP Adapter

Series 647

- Brass alloy female pin body w/ 200µ" (5.08µm) tin/lead plating
- Beryllium copper 4-fingered collet contact with 10µ" (0.25µm) gold over nickel plating
- Phosphor bronze alloy male pin with 200µ" (5.08µm) tin/lead plating
- Suggested PCB hole size: 0.028"Dia.



Part No.	Mfr. P/N	Positions	1	5
295283	44-647-10	44	\$49.95	\$44.95

## JAMECO ValuePro .100" Single-In-Line Machine Tooled Strip Sockets



- Machine tooled
- Solder tail or wire wrap
- Standard lead length: .160"

★ Web Code: KAM

Part No.	Description	1	10	100
164822	4-pin straight single row	\$.75	\$.65	\$.59
138684	5-pin straight single row	.75	.65	.59
2100339	7-pin straight single row	.99	.89	.69
102201	10-pin straight single row	1.19	.95	.75
2100347	12-pin straight single row	1.29	1.09	.85
2125675	14-pin straight single row	.99	.89	.79
78642	30-pin straight single row	1.49	1.29	.95
175920	36-pin straight single row	1.75	1.59	1.29
101283	20-pin WW2 single row	1.95	1.75	1.59
104054	30-pin WW3 single row	2.95	2.59	2.39

† Lead length: .435"(2) \* Lead length: .575"(3)

## JAMECO ValuePro Machine Contact Dual-In-Line Female Sockets

- 0.100" centers
- Pin sleeve: tin
- Solder tail contact: .114"L
- Contact clip: gold



Part No.	Cross Ref. No.	Pins	1	10	100
212856	SA101000	10	\$.95	\$.85	\$.75
212863	SA121000	12	.75	.65	.59
212871	SA141000	14	.35	.29	.25
212880	SA161000	16	.55	.49	.45
184613	SA201000	20	.85	.75	.65
212901	SA221000	22	.55	.49	.45
212936	SA481000	48	1.25	1.09	.99



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# High-Frequency Connectors & Adapters

## RF Adapters

★ Web Code: RFS



Part No.	Manufacturer	Product No.	Description	1	10	50
153454	ValuePro	SB-321	SMA female to BNC male	\$2.59	\$2.29	\$2.09
159469	ValuePro	CH-7830-N	SMA female to BNC female	3.59	3.09	2.89
153593	ValuePro	4288	SMA male to BNC male	3.95	3.55	3.19
159477	ValuePro	CH-7820-N	SMA male to BNC female	3.95	3.55	3.25
1951713	Amphenol Connex	242113	SMA in-line jack to N plug	8.98	7.95	7.29
1951764	Amphenol Connex	242127	SMA female to MCX male	8.95	7.95	6.95
1951721	Amphenol Connex	242141	SMA jack to MMCX plug	9.95	8.95	7.95
1951705	Amphenol Connex	242156	N-plug to F jack	6.95	5.95	4.95
1951781	Amphenol Connex	242185	BNC jack to SMB plug	6.95	5.95	4.95
207168	ValuePro	BJ-7072	RCA female to BNC female	2.65	2.39	2.19
114789	ValuePro	BR312	RCA female to BNC male	1.65	1.59	1.25
207176	ValuePro	BJ-7055	RCA male to BNC male	2.95	2.55	2.25
114753	ValuePro	RB312	RCA male to BNC female	1.65	1.59	1.45
114770	ValuePro	200-108	BNC female to F connector male	1.49	1.35	1.19
174255	ValuePro	TBC-176	BNC male to F connector female	2.49	2.19	1.99
309657	ValuePro	200-045	RCA female to F male adapter	.99	.89	.79

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## 50Ω MMCX Connectors

Part No.	Manufacturer	Cross Ref. No.	Description	1	10	50
311686	ValuePro	908-43200	Right angle plug, crimp (RG-178/U)	\$1.95	\$1.75	\$1.59
311693	ValuePro	908-43300	Right angle plug, crimp (RG-174/188/316)	1.75	1.59	1.45



## UHF Connectors & Adapters

★ Web Code: UCA

Part No.	Manufacturer	Mfr. Part No.	Description	1	10	50
223837	Amphenol RF	83-1T	In-series T-adaptor, jack-plug-jack	\$5.95	\$5.49	\$4.95
668377	Amphenol Connex	182106	PL-259 Straight adapter, nickel finish, phenolic insulator	2.49	2.25	2.09
668385	Amphenol Connex	182107	UG-175-U Reducing adapter, nickel finish, for 668377	.59	.55	.49



## 50Ω Type N Connectors

★ Web Code: TNC

Part No.	Manufacturer	Product No.	Description	1	10	50
296454	Amphenol Connex	172100	Crimp plug captive contact (RG-58/58A/58C/141/303/LMR195/B7806A)	\$4.95	\$4.49	\$3.95
659278	Amphenol Connex	172119	Panel receptacle jack, solder terminal (all 50Ω coax cables)	6.49	5.95	5.49
659286	Amphenol Connex	172122	Plug-to-plug adapter (all 50Ω coax cables)	8.75	8.29	7.69
659294	Amphenol Connex	172123	Jack-to-jack adapter	4.95	4.45	3.95
659315	Amphenol Connex	172126	Angled plug-to-jack adapter	9.95	8.95	7.95

\* Use crimp tool 667921, pg 78



## 75Ω "F" Connectors, Adapters & Terminators

★ Web Code: FCA

Part No.	Manufacturer	Product No.	Description	1	10	50
291531	ValuePro	200-028	Perma-seal, RG-6 coax	\$ .89	\$ .79	\$ .69
291725	ValuePro	200-051	F-jack to jack (gold)	1.39	1.25	1.15
295371	ValuePro	200-053	F-panel mount jack to jack (nickel)	.29	.25	.19
295380	ValuePro	200-107	F-right angle jack to plug (nickel)	1.95	1.75	1.59
1952943	Foxconn	200-190	F-right angle PC mount jack (90° barrel)	.75	.69	.65
289887	ValuePro	200-035	F-crimp on for RG-6, nickel plated	.25	.22	.15
2098267	Amphenol Connex	222113	F-crimp plug, 75Ω, for RG-179U, 3 pcs.	.75	.65	.59
2099737	Various	25-7010	F-crimp on plug for RG-6, nickel plated, 2 pcs. w/o center pin	.39	.35	.29



## 50Ω/75Ω BNC Connectors and Adapters

★ Web Code: BCP

### Plugs

Part No.	Manufacturer	Product No.	Fig.	Description	1	10	50
355099	ValuePro	31-2	1	50Ω plug, clamp, for RG-58/141/142/400 (UG-88/U)	\$1.95	\$1.75	\$1.59
223431	Amphenol RF	31-202	1	50Ω plug, solder cup, for RG-141/58/58C/B7806A	2.95	2.59	2.35
355135	ValuePro	31-212	1	50Ω/75Ω plug, clamp, for RG-59/62/140/302	1.49	1.25	1.19
311378	ValuePro	31-315	2	50Ω plug, 3 pcs, crimp, for RG-174; 188/U	3.49	3.19	2.95
355216	ValuePro	31-315-RFX	1	50Ω plug, 3 pcs, crimp, for RG-174/U; 188A/U; 316/U	1.75	1.59	1.45
188349	Amphenol RF	31-315-RFX	1	50Ω plug, 3 pcs, crimp, for RG-174/U; 188A/U; 316/U	2.29	1.95	1.75
188306	Amphenol RF	31-320-RFX	1	50Ω plug, 3 pcs, crimp, for RG-58/58C/141/B7806A	1.65	1.49	1.25
355240	ValuePro	31-320-RFX	3	50Ω plug, 3 pcs, crimp, for RG-58/58C/141/B7806A	1.49	1.35	1.19
311394	ValuePro	31-321	4	50Ω plug, 3 pcs, crimp, for RG-59/U	1.69	1.55	1.39
311408	ValuePro	31-321-RFX	4	50Ω plug, 3 pcs, crimp, for RG-59	.99	.89	.79
135618	ValuePro	200-141	3	75Ω plug, 3 pcs, crimp, for RG-6	1.19	.99	.89
71781	ValuePro	200-142	5	75Ω plug, twist-on, for RG-59	1.25	1.15	.95
71271	ValuePro	200-143	3	75Ω plug, 3 pcs, crimp, for RG-59	1.15	.95	.89
119394	ValuePro	200-144	6	75Ω plug, clamp-on, for RG-59	.99	.89	.75
71482	ValuePro	200-145	3	50Ω plug, 3 pcs, crimp, for RG-58	1.65	1.49	1.45
355362	ValuePro	6775	7	50Ω plug, clamp, for RG-8/9/87A/213/214/225	1.95	1.75	1.59
295953	Amphenol Connex	112116	8	50Ω crimp plug, captive contact, for RG-58/58A/58C/141/303	1.95	1.79	1.65
296008	Amphenol Connex	112132	8	50Ω crimp plug, captive contact, for RG-174/188A/316/B7805A	2.25	2.09	1.95
311319	ValuePro	68175-SRFX	4	50Ω/75Ω plug, 3 pcs, crimp, for RG-59	.99	.89	.79
311327	ValuePro	69475	7	50Ω/75Ω plug, clamp, for RG-174/179/187/188/316	.99	.95	.89
207183	ValuePro	BJ-70941	9	50Ω/75Ω male clamp-on, for RG-58/59	1.49	1.25	1.19
112110	ValuePro	G7409	3	50Ω male with pin and ferrule, for RG-174	2.95	2.65	2.39
311511	ValuePro	31-7000	10	75Ω plug, 3 pcs, crimp, for RG-6/212; Belden 9290/89248	1.49	1.25	1.09
311520	ValuePro	31-70008-1000	10	75Ω plug, 3 pcs, crimp, for RG-59/62; Belden 8241/8263/8279/9209	2.49	2.25	2.09
311538	ValuePro	31-71000-RFX	11	75Ω plug, 3 pcs, crimp, for RG-6/212; Belden 9290/89248	1.49	1.35	1.19
311546	ValuePro	31-71008-RFX	11	75Ω plug, 3 pcs, crimp, for RG-59/62; Belden 8241/8263/8279/9209	1.49	1.35	1.19
311554	ValuePro	31-71013-RFX	12	75Ω plug, 3 pcs, crimp, for RG-179/179B/187A; Belden 9221	.99	.89	.79
311572	ValuePro	31-71032	3	75Ω plug, 3 pcs, crimp, for RG-59/140; Belden 8241/8279	2.49	2.25	2.09
295970	Amphenol Connex	112119	8	75Ω crimp plug, captive contact, for RG-59/62/140/210	1.95	1.75	1.49
296016	Amphenol Connex	112133	8	75Ω crimp plug, captive contact, for RG-179/187/B9221	.99	.95	.89
2098241	Amphenol Connex	112491-10	3	75Ω crimp plug, for 100MHz RGB cable	1.49	1.25	1.19

\* Use crimp tool 667850, pg 78

† Use crimp tool 667905, pg 78



RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 189.

## 50Ω/75Ω BNC Connectors and Adapters (Continued)

\* Web Code: BCJ



### Jacks

Part No.	Manufacturer	Product No.	Fig.	Description	1	10	50
355120	ValuePro	31-203	1	50Ω jack, panel mount, solder cup	\$2.49	\$2.19	\$1.99
355224	ValuePro	31-318-RFX	2	50Ω bulkhead jack, crimp, for RG-174/U; 188A/U; 316/U	1.49	1.25	1.19
355178	ValuePro	31-221	3	50Ω jack, panel mount, solder cup (UG-1094/U)	1.95	1.75	1.59
223511	Amphenol RF	31-221	4	50Ω jack, panel mount, solder cup	2.49	2.25	1.99
658427	Amphenol Connex	112424	5	50Ω bulkhead jack, solder terminal	2.19	1.95	1.85
296067	Amphenol Connex	112431	6	50Ω bulkhead jack, isolated, solder terminal	3.95	3.59	3.29
658380	Amphenol Connex	112505	7	50Ω bulkhead jack, crimp, for RG-55/U; 142A/U; 223/U; 400/U	1.69	1.55	1.39
493917	AMP	227161-3	8	50Ω jack, right angle, PCB	2.95	2.65	2.39
421331	AMP	227726-3	9	50Ω jack, isolated, solder	2.49	2.25	1.95
111561	ValuePro	200-148	10	Jack, isolated, panel mount	2.29	1.95	1.79
160929	ValuePro	B211F-58	11	Jack, crimp type, for RG-58	1.49	1.25	1.15
161922	ValuePro	B211F-174	11	Jack, crimp type, for RG-174	1.49	1.35	1.19
2077618	Various	BNC-CR	12	Jack, chassis PCB receptacle	.49	.45	.39
146511	ValuePro	CH-7044S	13	Jack, right angle, plastic insulation, PC mount, w/ washer & nut	2.69	2.39	2.05
161656	ValuePro	CH-7087D	14	Jack, right angle, metal, PC mount	1.95	1.75	1.49
71590	ValuePro	G1B235	15	Jack, panel mount (UG-1094A)	1.95	1.79	1.65
1952821	Foxconn	KDA1001-H0	16	Jack, right angle, plastic insulation, PC mount	.95	.89	.75
174290	ValuePro	TBC-090	1	Jack, chassis mount	1.99	1.79	1.59
174297	ValuePro	TBC-101	17	Jack, twist on, bulkhead	.99	.95	.89



### Adapters/Couplers

\* Web Code: BCC

Part No.	Manufacturer	Product No.	Fig.	Description	1	10	50
311344	ValuePro	31-10-RFX	18	50Ω jack, bulkhead	\$2.69	\$2.39	\$2.19
188429	Amphenol RF	31-208-RFX	19	Jack-plug-jack	4.25	3.75	3.39
363961	ValuePro	31-218	20	50Ω straight adapter, plug-plug (UG-491A/U)	4.39	3.95	3.55
188411	Amphenol RF	31-219-RFX	21	50Ω straight adapter, jack-jack	3.95	3.49	3.15
355152	ValuePro	31-219-RFX	21	50Ω straight adapter, jack-jack (UG-914/U)	3.25	2.69	2.39
311351	ValuePro	31-220N-RFX	22	50Ω bulkhead adapter, jack-jack	2.95	2.69	2.39
72629	ValuePro	200-150	23	Female to female/female T-adapter	2.09	1.95	1.75
118594	ValuePro	200-155	24	Male to female/female T-adapter	1.95	1.75	1.55
71909	ValuePro	200-160	25	Female/female coupler (UG-914)	1.29	.95	.85
148224	ValuePro	200-165	26	Coupler, jack-jack, panel mount	1.95	1.89	1.69
100597	ValuePro	40958-Y	27	Male to female/female T-adapter (180°)	6.95	6.39	5.95
658451	Amphenol Connex	112437	28	50Ω jack-to-jack bulkhead adapter (all 50Ω coax cables)	3.95	3.59	3.29
658507	Amphenol Connex	112445	29	50Ω straight adapter, jack-jack	2.95	2.69	2.49
2115485	Emerson	27-8140	20	50Ω T-adapter, jack-plug-jack	1.25	1.09	.99
296083	Amphenol Connex	112446	21	75Ω straight adapter, jack-jack	1.95	1.75	1.59
658515	Amphenol Connex	112461	29	50Ω T-adapter, jack-plug-jack	2.75	2.49	2.25
117461	ValuePro	B-068	30	Male to female/female F-adapter (90°)	4.49	3.95	3.49
127343	ValuePro	B-311	20	Male/male coupler (UG-491B/U)	2.59	2.39	2.05
148232	ValuePro	B-332-IF	26	Coupler, jack-jack, isolated	1.95	1.75	1.49
127352	ValuePro	B-412	31	Male to female right angle (DG-306B/O)	3.79	2.85	2.15



### Terminators

\* Web Code: BCT

Part No.	Manufacturer	Product No.	Fig.	Description	1	10	50
71458	ValuePro	B-611T	32	BNC male terminator (50Ω)	\$1.95	\$1.39	\$1.19
71790	ValuePro	200-177	32	BNC male terminator (75Ω, 5%)	1.65	1.29	1.09
658540	Amphenol Connex	202100	33	Male cap with chain	1.49	1.35	1.19
658523	Amphenol Connex	202103	34	50Ω terminator plug	2.49	2.25	1.89
658531	Amphenol Connex	202105	34	75Ω terminator plug	1.19	1.09	.99

## SMB Connectors

\* Web Code: SCS

Part No.	Manufacturer	Product No.	Fig.	Description	Plating	1	10	50
444824	Cinch	SMB50-1301	35	50Ω jack, straight, PCB mount	Gold	\$2.49	\$2.25	\$2.09
659358	Amphenol Connex	142186	36	Straight crimp plug (RG-174/188A/316/B7805A)	Gold	3.95	3.59	3.29
172364	ValuePro	24-07L-1-TGG	37	50Ω bulkhead crimp jack	Gold	2.95	2.69	2.45
172372	ValuePro	24-05L-1-TGG-R	38	50Ω cable crimp plug	Gold	2.95	2.65	2.39

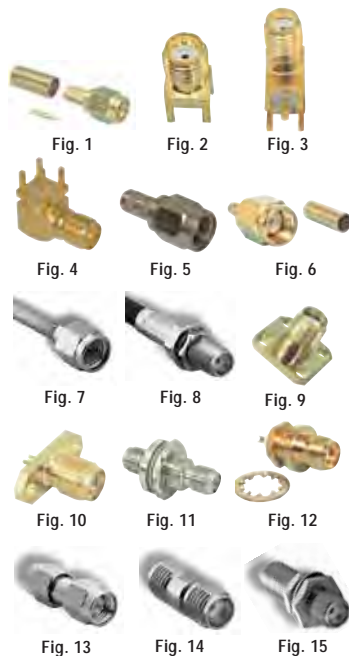
SMA Connectors, Adapters & Couplers on next page

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# SMA Connectors, Adapters & Coax Cables

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE



## 50Ω SMA Connectors

\*Web Code: SET

Part No.	Manufacturer	Product No.	Fig.	Description	Plating	1	10	50
157972	ValuePro	19-03F-4TGG	1	Straight crimp type male plug (RG-58)	Gold	\$3.95	\$3.59	\$3.29
145382	ValuePro	19-46G	2	Straight female PCB mount, 4 legs	Gold	3.95	3.59	3.29
145374	ValuePro	19-49G	3	90° female PCB mount, 4 legs	Gold	3.95	3.59	2.95
355283	ValuePro	901-143-6-RFX	4	Jack, right angle, PC mount	Gold	5.39	4.95	4.49
188509	Amphenol RF	901-144-8-RFX	2	Jack, right angle, PC mount	Gold	3.49	3.15	2.85
355292	ValuePro	901-9876-RFX	5	Straight plug, crimp (RG-58/U; RG-58C/U; 141)	Nickel	1.95	1.75	1.59
188488	Amphenol RF	901-9877-RFX	6	Straight plug, crimp (RG-174/U; RG-188A/U; RG-316/U)	Gold	2.95	2.65	2.39
355304	ValuePro	901-9877-RFX	6	Straight plug, crimp (RG-174/U; RG-188A/U; RG-316/U)	Gold	1.95	1.75	1.59
153366	ValuePro	4804	6	Straight crimp type male plug (RG-174)	Gold	2.95	2.65	2.39
296227	Amphenol Connex	132101	7	Straight cable plug w/ contact (RG-405U)	Gold	2.79	2.49	2.25
296323	Amphenol Connex	132114	7	Straight crimp plug (RG-174/188/316/B7805A)	Gold	2.25	2.09	1.95
658849	Amphenol Connex	132118	8	Bulkhead crimp jack (RG-58/58A/58C/141/303)	Gold	2.95	2.75	2.59
296331	Amphenol Connex	132119	8	Bulkhead crimp jack (RG-174/188A/316/B7805A)	Gold	3.49	3.25	2.95
658996	Amphenol Connex	132136	3	Right angle jack, PCB	Gold	3.95	3.69	3.39
159531	ValuePro	CH-7814	9	Female panel mount, 4 mounting holes (G-58/174)	Gold	3.95	3.75	3.29
160022	ValuePro	CH-7815-G	10	Female panel mount, 2 mounting holes (RG-58/174)	Gold	4.95	4.25	3.79
160013	ValuePro	CH-7818-N	11	Panel mount feed thru, female-female	Nickel	4.95	4.25	3.75
153286	ValuePro	SMA-7813	12	Bulkhead solder female w/ washer, rear mount (RG-58/174)	Gold	3.25	2.95	2.65

† Use crimp tool 667921, below \* Use crimp tool 667905, below † Solder cup

## SMA Adapters and Couplers

\*Web Code: SET

Part No.	Manufacturer	Product No.	Fig.	Description	Plating	1	10	50
659032	Amphenol Connex	132168	13	50Ω plug-to-plug adapter	Gold	\$5.95	\$5.35	\$4.79
659041	Amphenol Connex	132169	14	50Ω jack-to-jack adapter	Gold	5.49	4.95	4.45
659059	Amphenol Connex	132170	15	50Ω jack-to-jack adapter, bulkhead feed-through	Gold	6.95	6.49	5.95
659083	Amphenol Connex	202112	16	Plug cap	Nickel	.99	.89	.79
161294	ValuePro	S-311-G	17	Straight coupler male-male	Gold	3.25	2.95	2.65
161307	ValuePro	S-412-G	18	Right angle coupler male-female	Gold	5.49	4.95	4.49
153294	ValuePro	SMA-7817	19	Straight coupler female - jack-to-jack	Gold	3.79	3.49	3.19

## Universal Hand Crimp Tools

\*Web Code: GBU



Part No.	Manufacturer	Product No.	Die Cavities (in.)	Cable Groups	1	5
667850	Amphenol Connex	47-10070	.255/.213/.068	RG-55/58/59/62/141/142/223/303/400 (BNC/TNC)	\$74.95	\$69.95
667905	Amphenol Connex	47-10150	.178/.128/.068	RG-174/188/316/179/187/180/195/178/196 (BNC/TNC)	74.95	69.95
667921	Amphenol Connex	47-10180	.255/.213/.100/.068/.052	5 cavity RG-58/59 N/BNC/TNC/SMA connectors	74.95	69.95
261745	ValuePro	DL-806A	.255/.213/.068	For RG-58/59, BNC/TNC connectors with 3/8" ferrule	17.95	15.95

## SMA/SMB 50Ω Coax Cables

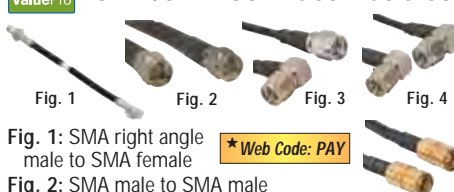


Fig. 1: SMA right angle male to SMA female  
Fig. 2: SMA male to SMA male  
Fig. 3: SMA male to SMA right angle male  
Fig. 4: SMA right angle male to SMA right angle male  
Fig. 5: SMB plug female to SMB plug female

\*Web Code: PAY

Part No.	Cable	Fig.	Lgth (ft.)	1	10	50
2099391	RG-58	1	0.5	\$1.95	\$1.75	\$1.59
159371	RG-58	2	2	4.95	4.49	3.95
159397	RG-58	2	6	6.49	5.95	5.49
169801	RG-174	2	0.5	4.75	4.25	3.75
163855	RG-174	2	1	4.95	4.49	3.95
153382	RG-174	2	2	4.95	4.49	3.95
153391	RG-174	2	4	5.25	4.75	4.25
159451	RG-174	2	6	7.95	6.95	6.25
175127	RG-174	3	0.5	4.95	4.49	3.95
175135	RG-174	3	1	4.95	4.49	3.95
175143	RG-174	4	0.5	4.95	4.49	3.95
175152	RG-174	4	1	5.95	5.35	4.75
175178	RG-174	5	1	4.95	4.49	3.95



## BNC Male Coax Cables



\*Web Code: BBD

### RG6 75Ω Cables

Part No.	Description	1	10	50
176794	3' BNC to BNC	\$4.95	\$4.49	\$3.95
176815	6' BNC to BNC	5.25	4.75	4.25

### RG59/U 75Ω CATV & Video Patch Cords

Part No.	Cross Ref. No.	Length (ft.)	1	10	50
86472	CRG59-1	1.5	\$3.49	\$3.19	\$2.89
85543	CRG59-6	6	3.69	3.25	2.95
102373	CRG59-12	12	4.95	4.49	3.95
262730	EBC-525	25	5.95	5.49	4.95
262748	EBC-550	50	7.95	6.95	6.29

### RG174/U 50Ω Network & Oscilloscope Cables

Part No.	Description	Length (ft.)	1	10	50
111473	RG174U3	3	\$4.95	\$4.49	\$3.95
111482	RG174U6	6	6.95	6.25	5.49

### RG58/U 50Ω Network & Oscilloscope Cables

Part No.	Cross Ref. No.	Length (ft.)	1	10	50
181308	CRG58-1RR	1	\$3.95	\$3.55	\$3.19
102315	CRG58-1	1.5	3.95	3.55	3.19
256743	CBB-224-24	2	4.95	4.49	3.95
11404	CRG58-3	3	4.95	4.49	3.95
102331	CRG58-6	6	3.95	3.55	3.19
180822	CRG58-10	10	4.95	4.49	3.95
102350	CRG58-12	12	4.95	4.49	3.95
169818	CRG58-15	15	5.95	5.35	4.75
102357	CRG58-25	25	6.95	6.25	5.49
102365	CRG58-50	50	9.95	8.95	7.95
102381	CRG58-100	100	12.95	11.49	9.95

## "F" Connector Patch Cables

• For use with cable TV and video



### RG-6 75Ω

Part No.	Cross Ref. No.	Length (ft.)	1	10
287101	205-415BK	6	\$1.49	\$1.25
297668	205-440BK-GW1B	75	3.95	3.59

### RG-59 75Ω

Part No.	Cross Ref. No.	Length (ft.)	1	10
85585	205-010BK	3	\$4.9	\$4.5

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

## 10' Fiber Optic Cable

INDUSTRIAL FIBER OPTIC

- 1000µm core jacketed plastic fiber optic cable (10')

\*Web Code: QAA

Part No.	Mfr. Part No.	1	10
171272	IF-C-E1000	\$5.95	\$5.35

## Fiber Optic Lab Kit

INDUSTRIAL FIBER OPTIC

- 9 different activities
- Ideal for the lab environment
- Teaches the fundamentals of fiber

Part No.	Mfr. Part No.	1	5
169914	IF-LMH	\$59.95	\$49.95

## 3M Spring Connectors



285683: 2#22 to 2#12AWG, orange with blue skirt  
285704: 4#14 to 2#6 to 3#8 AWG, blue w/ gray skirt

\* Order in multiples of 10

Part No.	Mfr. Part No.	1	10	100
285683	054007-43152	*	\$ .19	\$ .15
285704	054007-43150	.29	.28	.19

## EGE Telecom Splice Connectors

Provides clean, solid and rapid connection of wires to keep lines free of noise

169755: Y-type



Part No.	Color	AWG	Conductors	1	10	100
169747	Yellow	22-26	2	\$.25	\$.22	\$.15
169755	Red	19-26	3Y	.29	.25	.19

## Wire Connectors



- Material: UL approved nylon 66, 94V2
- Strip wire before application • Twist on type
- 182450/2121543: Nylon 66, 94-2 UL/CSA approved

140717: PE - metal inside

Order in multiples of 10

Part No.	Description	10	100	1000
140717	Wire IDC 22-18 AWG	\$.12	\$.09	\$.07
182511	Wire nut 16 AWG	.12	.09	.07
182450	Crimp 16-14 AWG	.19	.15	.12
2121543	Crimp 8-6 AWG	.25	.19	.15

\* Requires crimping tool (P/N 72996, pg 81)

\*Wire Caps Available Online — Enter Web Code QBB

## CINCH Double Row Barrier Blocks

- Insulation: molded mono block, general purpose phenolic, black, UL94V-1
- Screw material: steel with nickel over copper flash plating
- Solder terminal material: brass with electro-tin plating

\*Web Code: YBM

### 140 Series 15A

- 3750-watts/terminal max.
- 16 AWG wire max.
- Size: 0.88"W x 0.41"H
- Screw: 5-40 x 3/16"
- Density: 0.375"



Part No.	Mfr. P/N	Pos.	Length	1	10	100
230973	2-140	2	1.41"	\$1.39	\$1.25	\$1.09
230981	3-140	3	1.78"	1.49	1.35	1.19
230990	4-140	4	2.16"	1.79	1.49	1.29
231010	6-140	6	2.91"	2.19	1.69	1.49
231036	8-140	8	3.66"	2.89	2.49	2.09
231052	10-140	10	4.41"	3.49	2.89	2.39
231061	12-140	12	5.16"	4.49	3.95	3.49
1775983	14-140	14	5.91"	4.59	3.39	3.09

### 141 Series 20A

- 5000-watts/terminal max.
- 14 AWG wire max.
- Size: 1.13"W x 0.5"H
- Screw: 6-32 x 1/4"
- Density: 0.438"



Part No.	Mfr. P/N	Pos.	Length	1	10	100
2100021	3-141	3	1.78"	\$1.39	\$1.19	\$.99
231378	4-141	4	2.50"	1.69	1.49	1.35
231394	6-141	6	3.38"	2.59	2.35	2.09
231415	8-141	8	4.25"	2.95	2.59	2.29
231431	10-141	10	5.13"	3.39	2.89	2.39

### 142 Series 30A

- 7500-watts/terminal max.
- 10 AWG wire max.
- Size: 1.312"W x 0.625"H
- Screw: 8-32 x 5/16"
- Density: 0.563"



Part No.	Mfr. P/N	Pos.	Length	1	10	100
440891	8-142	8	5.47"	\$4.95	\$4.49	\$3.95

### Terminal Block Jumpers

For connecting between adjacent terminals or alternate terminals.

- 2-position
- Brass w/ nickel plating



Part No.	Mfr. Part No.	1	10	100
659382	140J-1 (140 series)	\$.25	\$.22	\$.19
448500	141J (141 series)	.35	.29	.25

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ValuePro

## European Terminal Blocks

- Number of poles: 12
- Terminal insert: brass metal alloy, nickel plated
- Material: polyamide 66 (nylon 66), UL94V-2, natural
- Screws: zinc plated, yellow chromed

215011

\*Web Code: CBJ

Part No.	Cross Ref.	Amps	AWG	1	10	100
2120170	ES01000/12DS	20A	12-20	\$1.39	\$1.29	\$1.15
215011	PA8HDS	20A	12-22	1.59	1.39	1.19
215029	PA10HDS	30A	10-22	2.25	1.95	1.75
215037	PA12HDS	35A	10-22	2.49	2.25	2.09

\* 300V \* 450V

JAMECO  
ValuePro

## Metric Double Row Terminal Blocks

- Body: black thermoplastic (UL94V-0)
- Terminals: brass tin plated
- Screws: steel nickel plated
- 12-18 AWG



\*Web Code: YBM

10A @ 600V

- Screw size: M3.0 • Size: 19.5mm W x 11.9mm H

Part No.	Cross Ref.	Pos.	Lgth (mm)	1	10	100
208857	GGE-10-4P	4	55	\$1.09	\$.95	\$.75
208865	GGE-10-6P	6	74	1.49	1.35	1.19
208873	GGE-10-8P	8	102.5	1.39	1.19	1.09
208900	GGE-10-10P	10	112	1.95	1.75	1.59
208882	GGE-10-12P	12	131	2.95	2.69	2.39

20A @ 600V

- Screw size: M3.5 • Size: 22.0mm W x 13.2mm H

Part No.	Cross Ref.	Pos.	Lgth (mm)	1	10	100
207538	GGE-20-4P	4	63.5	\$1.19	\$1.09	\$.99
207547	GGE-20-6P	6	85.3	1.59	1.39	1.25
207554	GGE-20-8P	8	107.1	1.95	1.79	1.59
207563	GGE-20-10P	10	128.9	2.19	1.95	1.85
207572	GGE-20-12P	12	150.7	2.95	2.59	2.29

## molex BEAU Terminal Blocks

- 0.375" double row
- Wire AWG range: 12-24AWG
- Terminal: brass, nickel plated
- Insulator: thermoplastic, UL94V-0
- Screws: #6-32 steel, zinc chromate plate

\*Web Code: YBM



Part No.	Mfr. Part No.	Beau No.	Pos.	1	10	100
659391	38770-0102	77002	2	\$.99	\$.89	\$.79
2125940	38770-0103	77003	3	1.59	1.45	1.29
659411	38770-0104	77004	4	1.95	1.79	1.59
659454	38770-0108	77008	8	2.49	2.25	1.95
659489	38770-0112	77012	12	3.95	3.49	2.95

OST

## DIN Rail-Mounted Terminal Block & DIN Rail

- Molded thermoplastic
- 12-22 AWG
- Spacing: 5.06mm (.199")
- UL rated voltage and current: 600V @ 20A



Part No.	Mfr. Part No.	Type	1	10	100
237083	41296.2	SR2.5	\$.89	\$.79	\$.69
248736	2094.0(IM)	TS35 x 7.5	6.95	6.29	5.49

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[www.Jameco.com/Clearance](http://www.Jameco.com/Clearance)

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## 10' Fiber Optic Cable

INDUSTRIAL FIBER OPTIC

- 1000µm core jacketed plastic fiber optic cable (10')

\*Web Code: QAA

Part No.	Mfr. Part No.	1	10
171272	IF-C-E1000	\$5.95	\$5.35

## Fiber Optic Lab Kit

INDUSTRIAL FIBER OPTIC

- 9 different activities
- Ideal for the lab environment
- Teaches the fundamentals of fiber

Part No.	Mfr. Part No.	1	5
169914	IF-LMH	\$59.95	\$49.95

## 3M Spring Connectors



285683: 2#22 to 2#12AWG, orange with blue skirt  
285704: 4#14 to 2#6 to 3#8 AWG, blue w/ gray skirt

\* Order in multiples of 10

Part No.	Mfr. Part No.	1	10	100
285683	054007-43152	*	\$ .19	\$ .15
285704	054007-43150	.29	.28	.19

## EGE Telecom Splice Connectors

Provides clean, solid and rapid connection of wires to keep lines free of noise

169755: Y-type



Part No.	Color	AWG	Conductors	1	10	100
169747	Yellow	22-26	2	\$.25	\$.22	\$.15
169755	Red	19-26	3Y	.29	.25	.19

## Wire Connectors



- Material: UL approved nylon 66, 94V2
- Strip wire before application • Twist on type
- 182450/2121543: Nylon 66, 94-2 UL/CSA approved

Part No.	Description	Order in multiples of 10	10	100	1000
140717	Wire IDC 22-18 AWG	.....	\$ .12	\$ .09	\$ .07
182511	Wire nut 16 AWG	.....	.12	.09	.07
182450	Crimp 16-14 AWG	.....	.19	.15	.12
2121543	Crimp 8-6 AWG	.....	.25	.19	.15

\* Requires crimping tool (P/N 72996, pg 81)

\*Wire Caps Available Online — Enter Web Code QBB

## CINCH Double Row Barrier Blocks

- Insulation: molded mono block, general purpose phenolic, black, UL94V-1
- Screw material: steel with nickel over copper flash plating
- Solder terminal material: brass with electro-tin plating

\*Web Code: YBM

### 140 Series 15A

- 3750-watts/terminal max.
- 16 AWG wire max.
- Size: 0.88"W x 0.41"H
- Screw: 5-40 x 3/16"
- Density: 0.375"



Part No.	Mfr. P/N	Pos.	Length	1	10	100
230973	2-140	2	1.41"	\$1.39	\$1.25	\$1.09
230981	3-140	3	1.78"	1.49	1.35	1.19
230990	4-140	4	2.16"	1.79	1.49	1.29
231010	6-140	6	2.91"	2.19	1.69	1.49
231036	8-140	8	3.66"	2.89	2.49	2.09
231052	10-140	10	4.41"	3.49	2.89	2.39
231061	12-140	12	5.16"	4.49	3.95	3.49
1775983	14-140	14	5.91"	4.59	3.39	3.09

### 141 Series 20A

- 5000-watts/terminal max.
- 14 AWG wire max.
- Size: 1.13"W x 0.5"H
- Screw: 6-32 x 1/4"
- Density: 0.438"



Part No.	Mfr. P/N	Pos.	Length	1	10	100
2100021	3-141	3	1.78"	\$1.39	\$1.19	\$ .99
231378	4-141	4	2.50"	1.69	1.49	1.35
231394	6-141	6	3.38"	2.59	2.35	2.09
231415	8-141	8	4.25"	2.95	2.59	2.29
231431	10-141	10	5.13"	3.39	2.89	2.39

### 142 Series 30A

- 7500-watts/terminal max.
- 10 AWG wire max.
- Size: 1.312"W x 0.625"H
- Screw: 8-32 x 5/16"
- Density: 0.563"



Part No.	Mfr. P/N	Pos.	Length	1	10	100
440891	8-142	8	5.47"	\$4.95	\$4.49	\$3.95

## Terminal Block Jumpers

For connecting between adjacent terminals or alternate terminals.

- 2-position
- Brass w/ nickel plating



Part No.	Mfr. Part No.	1	10	100
659382	140J-1 (140 series)	\$ .25	\$ .22	\$ .19
448500	141J (141 series)	.35	.29	.25

JAMECO  
ValuePro

## European Terminal Blocks

- Number of poles: 12
- Terminal insert: brass metal alloy, nickel plated
- Material: polyamide 66 (nylon 66), UL94V-2, natural
- Screws: zinc plated, yellow chromed

215011

\*Web Code: CBJ

Part No.	Cross Ref.	Amps	AWG	1	10	100
2120170	ES01000/12DS	20A	12-20	\$1.39	\$1.29	\$1.15
215011	PA8HDS	20A	12-22	1.59	1.39	1.19
215029	PA10HDS	30A	10-22	2.25	1.95	1.75
215037	PA12HDS	35A	10-22	2.49	2.25	2.09

\* 300V ↑ 450V

JAMECO  
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## Metric Double Row Terminal Blocks

- Body: black thermoplastic (UL94V-0)
- Terminals: brass tin plated
- Screws: steel nickel plated
- 12-18 AWG



\*Web Code: YBM

### 10A @ 600V

- Screw size: M3.0 • Size: 19.5mm W x 11.9mm H

Part No.	Cross Ref.	Pos.	Lgth (mm)	1	10	100
208857	GGE-10-4P	4	55	\$1.09	\$ .95	\$ .75
208865	GGE-10-6P	6	74	1.49	1.35	1.19
208873	GGE-10-8P	8	102.5	1.39	1.19	1.09
208900	GGE-10-10P	10	112	1.95	1.75	1.59
208882	GGE-10-12P	12	131	2.95	2.69	2.39

### 20A @ 600V

- Screw size: M3.5 • Size: 22.0mm W x 13.2mm H

Part No.	Cross Ref.	Pos.	Lgth (mm)	1	10	100
207538	GGE-20-4P	4	63.5	\$1.19	\$1.09	\$ .99
207547	GGE-20-6P	6	85.3	1.59	1.39	1.25
207554	GGE-20-8P	8	107.1	1.95	1.79	1.59
207563	GGE-20-10P	10	128.9	2.19	1.95	1.85
207572	GGE-20-12P	12	150.7	2.95	2.59	2.29

## molex BEAU Terminal Blocks

- 0.375" double row
- Wire AWG range: 12-24AWG
- Terminal: brass, nickel plated
- Insulator: thermoplastic, UL94V-0
- Screws: #6-32 steel, zinc chromate plate



Part No.	Mfr. Part No.	Beau No.	Pos.	1	10	100
659391	38770-0102	77002	2	\$ .99	\$ .89	\$ .79
2125940	38770-0103	77003	3	1.59	1.45	1.29
659411	38770-0104	77004	4	1.95	1.79	1.59
659454	38770-0108	77008	8	2.49	2.25	1.95
659489	38770-0112	77012	12	3.95	3.49	2.95

OST

## DIN Rail-Mounted Terminal Block & DIN Rail

- Molded thermoplastic
- 12-22 AWG
- Spacing: 5.06mm (.199")
- UL rated voltage and current: 600V @ 20A



Part No.	Mfr. Part No.	Type	1	10	100
237083	41296.2	SR2.5	\$ .89	\$ .79	\$ .69
248736	2094.0(IM)	TS35 x 7.5	6.95	6.29	5.49

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[www.Jameco.com/Clearance](http://www.Jameco.com/Clearance)

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Terminal Blocks & Solderless Terminal Kit

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		DOLLAR SALE



## Terminal Blocks

• For detailed specifications, please see our website at [www.Jameco.com](http://www.Jameco.com)



★ Web Code: XBD

Part No.	Mfr.	Mfr. Part No.	Fig.	Term.	Terminal Spacing	Description	1	10	100
2094506	OST	OSTTE020161	1	2	0.138"/3.5mm	Top screw	\$.29	\$.25	\$.19
2094522	OST	OSTTF020161	2	2	0.138"/3.5mm	Side screw	.35	.29	.25
2120680	OST	OSTEH022160	3	2	0.138"/3.5mm	Top screw	.49	.45	.39
2124411	OST	OSTTE040161	1	4	0.138"/3.5mm	Top screw	.65	.59	.55
2094514	OST	OSTTE030161	1	3	0.138"/3.5mm	Top screw	.39	.35	.29
2094565	OST	OSTTJ0231530	4	2	0.150"/3.81mm	R/A screw	.65	.59	.55
2094573	OST	OSTTJ0331530	4	3	0.150"/3.81mm	R/A screw	.95	.85	.75
2120621	OST	OSTTB020161	2	2	0.197"/5mm	Side screw	.35	.29	.25
2094485	OST	OSTTA020161	5	2	0.197"/5mm	Top screw	.29	.25	.19
160785	Dinkle	EK500V-02P	6	2	0.197"/5mm	Top screw	.59	.55	.45
164794	OST	OSTTH020160	3	2	0.197"/5mm	Top screw	.65	.59	.49
99427	Dinkle	128V2P-R	7	2	0.197"/5mm	Top screw	.79	.59	.49
189676	OST	OSTTC020162	8	2	0.197"/5mm	Top screw	.79	.59	.49
161067	Dinkle	EK500A-02P	9	2	0.197"/5mm	45° angle screw	.85	.75	.55
2120735	OST	OSTHT020080	10	2	0.197"/5mm	45° angle screw	.69	.65	.59
2120639	OST	OSTTB030161	2	3	0.197"/5mm	Side screw	.49	.45	.39
2094493	OST	OSTTA030161	5	3	0.197"/5mm	Top screw	.39	.35	.29
2081203	Dinkle	ED500V-3P	11	3	0.197"/5mm	Top screw	.49	.45	.39
189668	OST	OSTTC030162	8	3	0.197"/5mm	Top screw	.89	.79	.69
99398	Dinkle	DT128V3P	7	3	0.197"/5mm	Top screw	.95	.89	.79
160793	Dinkle	EK500V-03P	6	3	0.197"/5mm	Top screw	.95	.89	.79
164806	OST	OSTTH030160	3	3	0.197"/5mm	Top screw	.95	.89	.79
161059	Dinkle	EK500A-03P	9	3	0.197"/5mm	45° angle screw	1.15	.95	.85
2120743	OST	OSTHT030080	10	3	0.197"/5mm	45° angle screw	.95	.85	.75
2124429	OST	OSTTA040161	5	4	0.197"/5.0mm	Top screw	.55	.49	.45
2124437	OST	OSTTH040160	3	4	0.197"/5.0mm	Top screw	.65	.59	.55
2124453	OST	OSTTC040162	8	4	0.197"/5.0mm	Top screw	.55	.49	.45
2124470	OST	DT128V4P-R	7	4	0.197"/5.0mm	Top screw	.95	.89	.79
2124488	OST	EK500V-04P-R	6	4	0.197"/5.0mm	Top screw	.75	.69	.65
2124461	OST	EK500A-04P-R	9	4	0.197"/5.0mm	Top screw	.65	.59	.55
164815	OST	OSTOP240000	15	24	0.197"/5mm	1.3 x 1.3mm	1.59	1.39	1.19
2120567	OST	OSTYC022150	6	2	0.200"/5.08mm	Top screw	.45	.39	.35
2120647	OST	OSTTC022162	1	2	0.200"/5.08mm	Top screw	.29	.25	.19
2094581	OST	OSTTJ025153	12	2	0.200"/5.08mm	Top screw	.65	.59	.55
152347	OST	OSTTA024163	13	2	0.200"/5.08mm	Top screw	.65	.55	.45
2120575	OST	OSTYC032150	6	3	0.200"/5.08mm	Top screw	.55	.49	.45
2120655	OST	OSTTC032162	1	3	0.200"/5.08mm	Top screw	.39	.35	.29
152355	OST	OSTTA034163	13	3	0.200"/5.08mm	Top screw	.49	.45	.39
2094590	OST	OSTTJ035153	12	3	0.200"/5.08mm	Top screw	.89	.79	.69
2124445	OST	OSTTA044163	13	4	0.200"/5.08mm	Top screw	.55	.49	.45
276672	Buchanan	6PCV-05-006	14	6	0.375"/9.53mm	Top screw	1.49	1.29	1.15

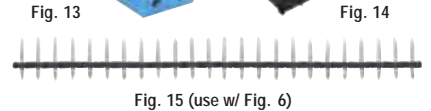
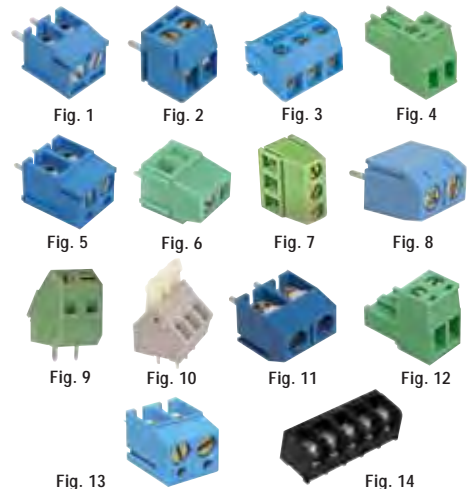


Fig. 15 (use w/ Fig. 6)

## 3M Electrical Connector Kit

• 79 pieces

Part No.	1	10
651954	\$7.95	\$6.95

## 171-Pc. Solderless Terminal Kit

170 Terminals and Connectors!

- Clear, hinged plastic box
- Use crimping tool P/N 72996, pg 81



Qty.	Description	Wire Gauge	Blade Size	Qty.	Description	Wire Gauge	Blade Size
10	Male spade	22-16	1/4"	10	Ring term.	16-14	#10
10	Male spade	16-14	1/4"	5	Ring term.	12-10	#10
10	Fem. spade	22-16	1/4"	5	Ring term.	12-10	#14
10	Fem. spade	16-14	1/4"	10	Spade term.	16-22	#6
10	Ring term.	22-16	#6	10	Spade term.	16-22	#8
10	Ring term.	22-16	#8	10	Spade term.	16-14	#10
10	Ring term.	16-14	#10	10	Butt conn.	16-22	—
15	Ring term.	16-14	#6	10	Butt conn.	16-14	—
10	Ring term.	16-14	#8	5	Butt conn.	12-10	—

Part No.	Product No.	1	10	25
10990	G1C175-R	\$14.95	\$13.49	\$11.95

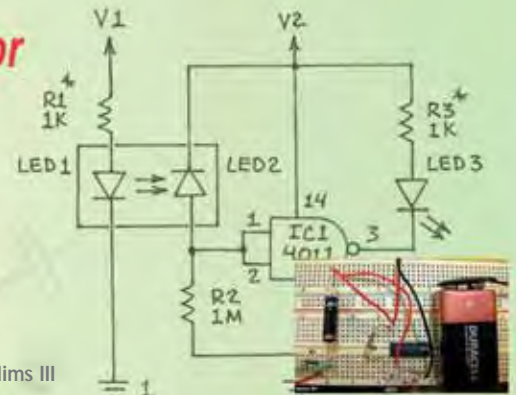
## Experimenting with a Two-Way Optoisolator

Light-emitting diodes can double as sources and detectors of light. This capability makes possible free-space and optical fiber communication links with a single LED at each end of the link. Also possible is a bidirectional optoisolator made from two similar LEDs. To the best of my knowledge, no such devices have been made commercially available since I first described the idea in back 1979. But that's not a problem, since you can easily make one yourself.

A two-way optoisolator is unnecessary when only one-way operation is required. But experimenting with two-way operation just might provide some new ideas.

[WWW.JAMECO.COM/FMR9](http://WWW.JAMECO.COM/FMR9)

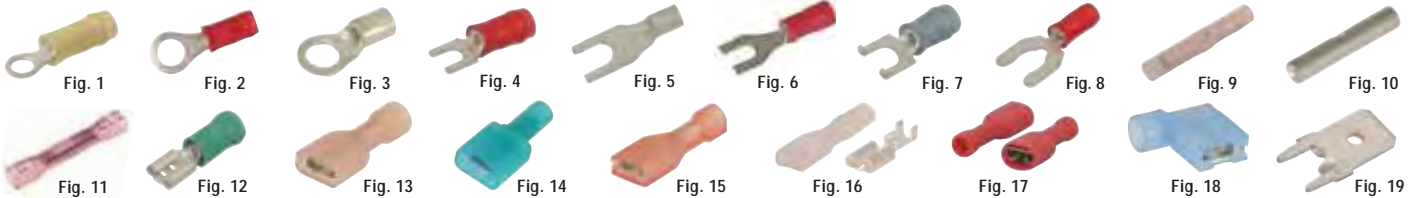
by Forrest M. Mims III





## Terminals, Splices and Quick Connect/Disconnect

★ Web Code: TSQ



### Ring Tongue Terminals

* Order in multiples of 10									
Part No.	Mfr.	Product No.	Fig.	Insul.	Stud Size	AWG	Color	1	10 100
302594	AMP	323912	1	Nylon	#2	26-22	Yellow	..... *	\$ .19 \$ .15
302658	AMP	31880	1	Nylon	#4	22-16	Red	..... .25 .22	.15
302666	AMP	36152	2	Plastic	#6	22-16	Red	..... .25 .22	.15
103684	ValuePro	2048	2	Plastic	#6	22-16	Red	..... *	.19 .15
302674	AMP	31890	2	Plastic	#8	22-16	Red	..... *	.19 .15
844289	AMP	34107	3	Uninsul.	#6	22-16	—	..... *	.19 .15
844377	AMP	34111	3	Uninsul.	#8	22-16	—	..... *	.19 .15
844406	AMP	34112	3	Uninsul.	#10	22-16	—	..... *	.15 .12
302720	AMP	320619	1	Nylon	#6	16-14	Blue	..... *	.15 .12
302746	AMP	36160	1	Nylon	#10	16-14	Blue	..... *	.19 .15
302754	AMP	321045	1	Nylon	#1/4	16-14	Blue	..... .25 .22	.17
302797	AMP	35108	1	Nylon	#8	12-10	Yellow	..... .25 .22	.17
302800	AMP	35109	1	Nylon	#10	12-10	Yellow	..... .25 .22	.17
302738	AMP	320565	2	Nylon	#8	16-14	Blue	..... .29 .25	.19

### Spade Tongue Terminals

* Order in multiples of 10									
Part No.	Mfr.	Product No.	Fig.	Insul.	Stud Size	AWG	Color	1	10 100
302851	AMP	328394	4	Nylon	#2	22-16	Red	..... *	\$ .19 \$ .17
2125780	3M	MVU18-4FLK	4	Vinyl	#4	22-16	Red	..... *	.19 .15
302869	AMP	327717	4	Nylon	#4	22-16	Red	..... .35 .33	.31
302877	AMP	34541	4	Nylon	#6	22-16	Red	..... .25 .22	.17
103588	ValuePro	SVS1-3.7	4	Vinyl	#6	22-16	Red	..... *	.15 .12
302885	AMP	32053	4	Nylon	#8	22-16	Red	..... .59 .55	.49
842929	AMP	323127	5	Uninsul.	#6	22-16	—	..... *	.19 .15
502879	Molex	19144-0001	6	PVC	#5-6	18-22	Red	..... .25 .22	.17
302906	AMP	35559	4	Nylon	#6	16-14	Blue	..... .25 .22	.17
302914	AMP	32059	4	Nylon	#8	16-14	Blue	..... .29 .25	.19
103596	ValuePro	SVM-2.9	4	Vinyl	#8	16-14	Blue	..... *	.19 .15
302949	AMP	326859	4	Nylon	#6	12-10	Yellow	..... .45 .39	.35
302957	AMP	32588	4	Nylon	#8	12-10	Yellow	..... .39 .35	.29
511265	AMP	19144-0043	4	PVC	#10	12-10	Yellow	..... .29 .25	.19
502801	AMP	19141-0085	4	Uninsul.	#10	12-10	—	..... *	.09 .08

### Flanged Spade Tongue Terminals

Part No.	Mfr.	Mfr. Part No.	Fig.	Insul.	Stud Size	AWG	Color	1	10 100
302973	AMP	324608	7	PVC	#2	22-16	Red	..... \$ .29 \$ .25	\$ .19
303010	AMP	320862	7	Nylon	#8	16-14	Blue	..... .29 .25	.22

### Short Spring Spade Tongue Terminals

* Order in multiples of 10									
Part No.	Mfr.	Mfr. Part No.	Fig.	Insul.	Stud Size	AWG	Color	1	10 100
303087	AMP	52930	8	Nylon	#8	22-16	Red	..... *	\$ .17 \$ .15
303132	AMP	52941	8	Nylon	#6	12-10	Yellow	..... *	.17 .15
303141	AMP	52942	8	Nylon	#8	12-10	Yellow	..... .29 .25	.22
303159	AMP	52943	8	Nylon	#10	12-10	Yellow	..... .29 .25	.19

See page 39 for Solderless Terminal Grab Bag (P/N 2082118).



### Solderless Terminal Crimping Tool

- Crimps solderless terminals: 18-22 AWG red, 14-16 AWG blue and 10-12 AWG yellow



Part No.	Mfr. Part No.	Size	1	10	25
72996	HT303	9.0"L x 2.0"W	\$24.95	\$21.95	\$17.95

### Butt & Knife Disconnect Splices

* Order in multiples of 10									
Part No.	Mfr.	Mfr. Part No.	Fig.	Insul.	Type	AWG	Color	1	10 100
303167	AMP	323994	9	Nylon	Butt	24-20	Natural	.. \$ .55 \$ .49	\$ .45
303175	AMP	320559	9	Nylon	Butt	22-16	Red	..... .55 .49	.45
494469	Molex	19215-0009	10	Uninsul.	Butt	22-18	—	..... *	.15 .12
491305	Molex	19164-0013	11	NIAC	Butt	22-18	Red	..... .45 .39	.35
503062	Molex	19154-0004	9	PVC	Butt	18-22	Red	..... *	.19 .15
303183	AMP	320562	9	Nylon	Butt	16-14	Blue	..... .55 .49	.45
511530	Molex	19154-0030	9	PVC	Butt	12-10	Natural	..... *	.17 .15

### Quick Connect/Disconnect Female Terminals

* Order in multiples of 10									
Part No.	Mfr.	Product No.	Fig.	Insul.	Size (ins.)	AWG	Color	1	10 100
303280	AMP	640903-1	12	Nylon	.250 x .032	22-18	Red	.. \$ .25 \$ .22	\$ .15
489627	Molex	19003-0001*	13	Nylon	.250 x .032	22-18	Red	..... *	.19 .15
489475	Molex	19002-0001	14	Nylon	.250 x .032	22-18	Red	..... .35 .29	.25
489758	Molex	19005-0001	13	Nylon	.250 x .032	22-18	Red	..... .29 .22	.15
303255	AMP	640917-1	12	Nylon	.187 x .020	22-18	Red	..... .25 .22	.15
837134	AMP	2-520411-2	13	Nylon	.187 x .032	22-18	Red	..... .29 .25	.22
489643	Molex	19003-0017*	13	Nylon	.187 x .032	22-18	Red	..... .25 .22	.15
461042	Molex	19019-0009	12	Nylon	.187 x .032	22-18	Red	..... *	.19 .15
489635	Molex	19003-0011*	13	Nylon	.187 x .020	22-18	Red	..... .29 .25	.19
524197	AMP	2-520182-2	15	Nylon	.187 x .020	22-18	Red	..... .25 .22	.15
303247	AMP	640923-1	12	Nylon	.110 x .020	22-18	Red	..... .29 .25	.19
2121551	Various	QCD187	16	Nylon	.187 x .032	22-16	Clear	..... *	.19 .15
109112	ValuePro	GFF1250	17	Vinyl	.250 x .032	22-16	Red	..... *	.19 .15
103668	ValuePro	FDV1-250	12	Vinyl	.250 x .032	22-16	Red	..... *	.19 .15
106922	ValuePro	FDV1-187	12	Vinyl	.187 x .032	22-16	Red	..... *	.12 .09
303327	AMP	640905-1	12	Nylon	.250 x .032	16-14	Blue	..... .25 .22	.15
489766	Molex	19005-0005	13	Nylon	.250 x .032	16-14	Blue	..... .25 .22	.16
489678	Molex	19003-0040*	13	Nylon	.250 x .032	16-14	Blue	..... *	.19 .15
489871	Molex	19007-0021*	18	Nylon	.250 x .032	16-14	Blue	..... .39 .35	.29
303301	AMP	640919-1	12	Nylon	.187 x .020	16-14	Blue	..... *	.17 .15
489694	Molex	19003-0050*	13	Nylon	.187 x .020	16-14	Blue	..... .29 .22	.15
1963811	Molex	19003-0055	17	Nylon	.187 x .020	16-14	Blue	..... *	.19 .15
303298	AMP	640929-1	12	Nylon	.110 x .020	16-14	Blue	..... .25 .22	.19
303343	AMP	640907-1	12	Nylon	.250 x .032	12-10	Yellow	..... .39 .35	.29
489774	Molex	19005-0010	13	Nylon	.250 x .032	10-12	Yellow	..... .39 .35	.29

\* Translucent

### Quick Connect/Disconnect Male Terminals Insulated

Part No.	Mfr.	Mfr. Part No.	Fig.	Insul.	Size (ins.)	AWG	Color	1	10 100
489723	Molex	19004-0001	14	Nylon	.250 x .032	22-18	Red	.. \$ .29 \$ .25	\$ .19
489432	Molex	19001-0003	14	Nylon	.187 x .020	22-18	Red	..... .39 .35	.29
489731	Molex	19004-0005	14	Nylon	.250 x .032	16-14	Blue	..... .29 .25	.19

### Printer Circuit Board Male Quick Connect

Order in multiples of 10									
Part No.	Mfr.	Mfr. Part No.	Fig.	Material	Size (ins.)	10	100	1000	
853927	AMP	63824-1	19	Tin/Copper	.250 x .032	.....	\$ .12	\$ .09	\$ .07

## Solderless Terminal/Quick Connect Cable Assembly

- 2100056: #6 stud ring tongue terminal 22-16 AWG (fig. 1) and #6 stud spade tongue terminal 22-16 AWG (fig. 4)
- 2100081: #6 stud spade tongue terminal 22-16 AWG (fig. 4) and .250" quick connect/disconnect connector 22-16 AWG (fig. 14)
- 2100099: Dual cable, .250" quick connect/disconnect connector 22-16 AWG and .110" quick connect/disconnect connector 22-16 AWG (fig. 14)

Part No.	Product No.	Wire	Length	1	10	100	1000
2100056	STCA-11	18 AWG (green)	11"	..... \$ .45 \$ .39	\$ .35 \$ .29		
2100081	STQC-13	18 AWG (green)	13"	..... .55 .49	.45 .39		
2100099	QCDC-39	18 AWG (black & white)	39"	..... .65 .59	.49 .45		

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Binary, Basic & Snap Switches

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

JAMECO ValuePro

## Binary Coded Decimal (BCD) Switches

- Contact resistance: 100mΩ max.
- Contacts: gold plated BE-CU alloy
- Front snap-tab mounting w/ end plates
- Continuous load: 1 amp max.
- 28VDC @ 0.15A



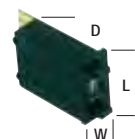
\* Web Code: QAD

Part No.	Manufacturer	Cross Ref. No.	Description	Dimensions (L" x W" x D")	Character Height	Pricing		
						1	10	100
26789	ValuePro	GPF311221	10-position pushbutton	1.2 x 0.3 x 1.7	0.19"	\$4.95	\$4.49	\$3.95
26761	ValuePro	PF31E10	End plates for 26789 (2)	1.2 x 0.2 x 1.1	—	.95	.85	.75
26818	ValuePro	GTF311211	10-position thumbwheel	1.2 x 0.3 x 1.9	0.25"	4.95	4.49	3.95
26771	ValuePro	TF31E10	End plate for 26818 (2)	1.2 x 0.2 x 1.3	—	.95	.85	.75

JAMECO ValuePro

## Mini Pushbutton BCD Switch

- Operating temp.: -10°C to +65°C
- 28VDC @ 10A
- Break before make
- Switches snap together
- Positive logic ("0" all open output)
- Size L = 0.59", W = 0.30", S = 1"
- Character height: 0.12"



Part No.	Cross Ref.	Description	1	10	100
136558	MX061	10-position ...	\$2.95	\$2.59	\$2.29
2128059	MX061-E	End plate	.95	.85	.75

\* Web Code: UEM

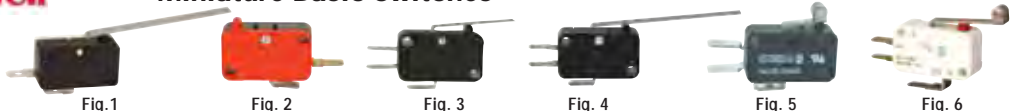
HIGHLY

OMRON

Honeywell

## Miniature Basic Switches

- 3 terminals: common; normally open; normally closed
- Size: 1.10"L x 0.40"W x 0.63"H



Part No.	Manufacturer	Product No.	Fig.	Actuator Type	Contact Form	Contact Rating	Service Life (Mech./Elec.)	Terminal Type	Pricing		
									1	10	100
1945268	Zippy	VM-5	1	Long lever (2.0"L)	SPST	5A @ 125/250VAC	10M/1M	0.187" quick connect	\$1.35	\$1.19	\$0.95
2076244	Honeywell	V3-23-D8	2	Pin plunger	SPST-NO	5A @ 125VAC	50M/300k	0.183" quick connect	1.49	1.25	.95
187792	Omron	V-10G2-1C24K	3	Hinge lever (1.08"L)	SPDT-NC	0.1A @ 125VDC, 10A @ 250VAC	50M/300k	0.183" quick connect	2.49	2.19	1.95
187805	Omron	V-10G3-1C24K	4	Long hinge lever (2.01"L)	SPDT-NC	0.1A @ 125VDC, 10A @ 250VAC	50M/300k	0.183" quick connect	2.95	2.69	2.49
2117333	ValuePro	VM-05S-03D0-Z	3	Long lever (2.0"L)	SPDT-NC	5A @ 125/250VAC	50M/300k	0.185" quick connect	1.59	1.35	1.15
617844	GC Electronics	35-880	2	Lever actuator	SPDT	10A @ 125VAC	10M/100k	0.187" quick connect	2.95	2.75	2.59
159572	Highly Electric	VS10N051C	5	Hinge roller (0.60"L)	SPDT-NC	10A @ 125VAC/250VAC	10M/100k	0.250" quick connect	2.95	2.59	2.29
159581	Highly Electric	VS10N021C2	3	Hinge lever (1.05"L)	SPDT-NC	10A @ 125VAC/250VAC	10M/100k	0.183" quick connect	2.49	2.19	1.95
483284	Cherry	D44CR1RD	6	Hinge lever (1.24"L)	SPDT	10A @ 125/250VAC	6k	0.187" quick connect	2.95	2.59	2.29
1917099	Honeywell	V7-1C17D8	2	Pin plunger	SPDT	15.1A @ 125/250/277VAC	50M/300k	0.183" quick connect	2.49	2.25	1.95

HIGHLY

Mountain Switch

OMRON

## Subminiature Basic Switches

- Economical, subminiature basic switch offers long service life
- Free from overtravel restrictions, permits easy setting
- Lead spacing: A = 0.35"; B = 0.29"
- Dimensions: 0.78"L x 0.25"W x 0.40"H

\* Web Code: MBE



Part No.	Manufacturer	Mfr. Part No.	Fig.	Actuator Type	Contact Form	Contact Rating	Service Life (Mech./Elec.)	Terminal Type	Pricing		
									1	10	100
188867	Omron	D2F-L	1	Hinge lever (0.5"L)	SPDT-NC	3A @ 125VAC, 2A @ 30VDC	1M/30k	Solder	\$1.39	\$1.25	\$1.09
187709	Omron	SS-5GL	2	Hinge lever (0.6"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	30M/200k	Solder	1.59	1.35	1.15
187733	Omron	SS-5GL2	3	Hinge roller (0.6"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	30M/200k	Solder	1.95	1.75	1.59
159599	Highly Electric	SS0505A	3	Hinge roller (0.7"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	30M/200k	Solder	1.49	1.35	1.19
187717	Omron	SS-5GL13	4	Simulated roller lever	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	30M/200k	Solder	1.59	1.35	1.15
2097651	Mountain Switch	61-05-033ST-Q-EV	2	Straight lever (0.653"L)	SPDT-NC	5A @ 125VAC/250VAC	10M/100k	.110" quick connect	.75	.69	.63
2097627	Mountain Switch	61-05-104XX-Q-EV	5	Button (no lever)	SPDT-NC	5A @ 125VAC/250VAC	10M/100k	.110" quick connect	.59	.55	.49
2100048	Honeywell	311SM8094-H4	6	Straight lever (1.31")*	SPDT	5A @ 250VAC, 5A @ 30VDC	1M/30k	.110" quick connect	1.75	1.49	1.25
2100030	Honeywell	311SM8095-H5	6	Straight lever (1.31")	SPDT	5A @ 250VAC, 5A @ 30VDC	1M/30k	.110" quick connect	1.49	1.25	1.09
2097715	Mountain Switch	61-10-055ST-EV	2	Straight lever (0.653"L)	SPDT-NC	10.1A @ 125VAC/250VAC	10M/100k	Solder	.99	.89	.79
2097694	Mountain Switch	61-10-249XX-Q-EV	5	Button (no lever)	SPDT-NC	10.1A @ 125VAC/250VAC	10M/100k	.110" quick connect	.99	.89	.79

\* Straight lever with flag actuator

Mountain Switch

## Super Subminiature Snap Switches



Part No.	Manufacturer	Mfr. Part No.	Fig.	Actuator Type	Contact Form	Contact Rating	Service Life (Mech./Elec.)	Terminal Type	Pricing		
									1	10	100
2097598	Mountain Switch	13-03-070ST-EV	1	Straight lever (0.433"L)	SPDT-NC	3A @ 125VAC; 0.2A @ 60VDC	1M/15k	PCB	\$ .75	\$ .59	\$ .49
2097601	Mountain Switch	13-03-045SR-EV	2	Simulated roller (0.614"L)	SPDT-NC	3A @ 125VAC; 0.2A @ 60VDC	1M/15k	PCB	.95	.85	.75

## Magnetic Reed Switches

- NO (normally open)
- Contact form: SPST



\* Web Code: UBB

Part No.	Product No.	Contact Rating	Size (L" x D")	Type	Pricing		
					1	10	100
171872	MKA14103	0.5A @ 100VDC	0.53 x 0.1	Axial	\$.95	\$.79	\$.65
2099340	R1-27AAA	0.5A @ 180VDC/130VAC	1.81 x 0.07	Axial	.99	.89	.79
2099331	CM15-2025	0.5A @ 200VDC	1.36 x 0.15	SMT	.69	.59	.49
1951342	MKC-27103	1.0A @ 220VDC	2.24 x 0.1	Axial	1.65	1.49	1.35

## Temperature Switch

- SPST-NC (Normally-Closed)
- Contact current: 5A
- Contact voltage: 120V
- Operational life: 100,000 cycles
- Contact resistance: 50MΩ or less
- Temp: 75°C (167°F) • 1.64"L leads
- PCB mount • UL/CSA approved



Part No.	Product No.	1	10	100
159636	7AM-202	\$.35	\$.29	\$.25

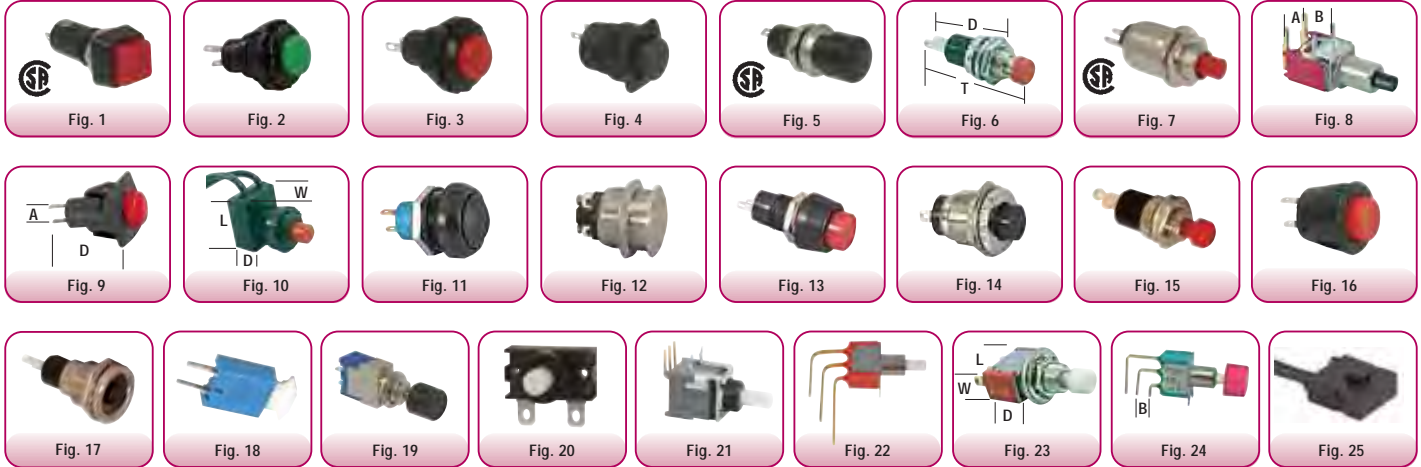
RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.





## Pushbutton Switches

★ Web Code: UBU



Part No.	Manufacturer	Product No.	Fig.	Pins	Mounting Hole Dia.	Contact Form ( ) Momentary	Contact Rating	Dimensions (L" x W" x D")	Lead Spacing		Terminal Type	Button Color	Pricing		
									A"	B"			1	10	100
315521	ValuePro	R13-23B-Y	1	2	.480"	SPST off-on	3A @ 125VAC	1.38 (D) x 1.53 (T)	.18	—	Solder	Yellow	\$1.35	\$1.19	\$1.05
164523	Mountain Switch	1DS466R	1	2	.406"	SPST off-(on)	3A @ 125VAC	.50 x .50 x .60	.16	—	Solder	Red	2.95	2.65	2.35
315484	ValuePro	R13-23B-R	1	2	.480"	SPST off-on	3A @ 125VAC	1.13 (D) x 1.53 (T)	.20	—	Solder	Red	1.09	.95	.85
315492	ValuePro	R13-23B-B	1	2	.480"	SPST off-on	3A @ 125VAC	1.13 (D) x 1.53 (T)	.20	—	Solder	Black	1.09	.95	.85
315432	ValuePro	R13-23A-R	1	2	.480"	SPST off-(on)	3A @ 125VAC	1.13 (D) x 1.53 (T)	.20	—	Solder	Red	1.09	.95	.85
315651	ValuePro	R13-502A-05-BB	1	2	.500"	SPST off-(on)	3A @ 125VAC	.82 (D) x 1.02 (T)	.23	—	Solder	Black	1.79	1.59	1.39
315678	ValuePro	R13-502A-05-BG	2	2	.500"	SPST off-(on)	3A @ 125VAC	.82 (D) x 1.02 (T)	.20	—	Solder	Green	1.75	1.49	1.25
315660	ValuePro	R13-502A-05-BR	3	2	.500"	SPST off-(on)	3A @ 125VAC	.82 (D) x 1.02 (T)	.22	—	3Solder	Red	1.79	1.59	1.39
315791	ValuePro	R13-508A-05-BB	4	2	.630"	SPST off-(on)	3A @ 125VAC	.94 (D) x 1.16 (T)	.24	—	Solder	Black	2.49	2.25	1.95
315820	ValuePro	R13-508AL-05-BRR	4	4	.630"	SPST off-(on)	3A @ 125VAC	.93 (D) x 1.14 (T)	.21	.25	Solder w/ LED	Red	2.49	2.25	1.95
315599	ValuePro	R13-40A-R	5	2	.480"	SPST off-(on)	3A @ 125VAC	.98 (D) x 1.56 (T)	.20	—	Solder	Red	1.39	1.25	1.09
315580	ValuePro	R13-40B-B	5	2	.480"	SPST off-(on)	3A @ 125VAC	.87 (D) x 1.4 (T)	.20	—	Solder	Black	1.39	1.25	1.09
26623	ValuePro	MS102	6	2	.250"	SPST off-(on)	3A @ 125VAC	.65 (D) x 1.10 (T)	—	.14	Solder lugs	Red	.69	.59	.49
164566	Mountain Switch	MS402R	7	2	.172"	SPST off-(on)	.5A @ 125VAC	.60 (D) x .80 (T)	.08	—	Solder	Red	1.95	1.75	1.59
315643	ValuePro	R13-81-R	7	2	.203"	SPST off-(on)	.5A @ 125VAC	.44 (D) x .78 (T)	.08	—	PC terminal	Red	.95	.85	.75
71643	ValuePro	SWB210	8	2	.219"	SPST off-(on)	1A @ 120VAC	.36 x .20 x .33	.20	.20	PC right angle	Black	2.79	2.45	2.29
174414	ValuePro	R13-510A	9	2	.500"	SPST off-(on)	3A @ 125VAC	.82 (D) x 1.0 (T)	—	.167	Solder lugs	Red	.95	.85	.75
22218	Judco	J1882	10	2*	.375"	SPST off-(on)	2A @ 14VDC	.65 x .52 x .40	.25	—	5" Pigtail	Red	1.25	1.09	.95
171758	Apem	IPR3SAD2	11	2	.500"	SPST off-(on)	2A @ 250VAC	.76 (D) x 1.0 (T)	.19	—	Solder	Black	15.95	14.49	12.95
171774	Apem	AV191003C900	12	2	.750"	SPST off-(on)	2A @ 48VDC	.87 (D) x 1.2 (T)	.37	—	Screw	Silver	13.95	12.95	11.49
164494	Mountain Switch	DS450R	13	2	.406"	SPST off-on	3A @ 125VAC	.59 (D) x 1.2 (T)	.175	—	Solder	Red	3.95	3.49	3.19
164486	Mountain Switch	DS463R	13	2	.406"	SPST off-(on)	3A @ 125VAC	.59 (D) x 1.2 (T)	.175	—	Solder	Red	2.95	2.59	2.09
164582	Mountain Switch	DS016B	14	2	.469"	SPST off-(on)	1A @ 125VAC	.46 (D) x .88 (T)	.22	—	Solder	Black	2.35	2.19	2.09
164639	Mountain Switch	MS3120R	15	2	.295"	SPST off-(on)	.5A @ 125VAC	.31 (D) x 1.1 (T)	.175	—	Solder	Red	1.75	1.49	1.25
106112	Mountain Switch	DS412R	16	2	.734"	SPST off-(on)	3A @ 110VAC	.66 (D) x .63 (T)	.275	—	Solder lugs	Red	1.95	1.75	1.59
164671	Mountain Switch	NS801M0	17	2	.492"	SPST off-(on)	1A @ 125VAC	1.0 (D) x 1.1 (T)	.213	—	Solder terminal	Black	3.95	3.49	3.19
26649	ValuePro	MS103	6	2	.250"	SPST on-(off)	3A @ 125VAC	.65 (D) x 1.10 (T)	—	.17	Solder lugs	Black	.59	.49	.45
22200	Judco	J1881	10	2*	.375"	SPST on-off, Alt <sup>1</sup>	2A @ 14VDC	.65 x .52 x .40	.25	—	5" Pigtail	White	1.29	1.15	1.05
172700	Arctic	MPSP1SPSTBLWH	18	2	—	SPST (on/off)	.05A @ 24VDC	.38 x .20 x .10	.10	—	Solder terminal	White	.39	.35	.25
315388	ValuePro	PA101A1-R/BL	19	2	.250"	SPST on-off	6A @ 125VAC	1.2 (D) x 1.7 (T)	.185	—	Solder	Red	1.49	1.25	.99
355451	ValuePro	J1881	20	2*	.375"	SPST on-off, Alt <sup>1</sup>	2A @ 14VAC	.65 x .52 x .40	.25	—	5" Pigtail	White	.55	.49	.45
447072	Apem	TP32Y0030050\$	19	3	.250"	SPST on-on	.4A @ 20VAC	0.7 (D) x 0.8 (T)	.11	—	Solder	Black	.45	.35	.29
200774	C&K Switch	TP12SH8AQE	21	3	.219"	SPDT off-(on)	1A @ 120VAC	.32 x .20 x .33	.20	.10	PC right angle	Black	2.95	2.59	2.09
72645	AlcoSwitch	TPC11FGR2A	8	3	.203"	SPDT off-(on)	1A @ 125VAC	.32 x .26 x .37	.20	.20	PC right angle	Red	1.25	.99	.85
2125771	C&K Switch	8125-SD9AV1BR	22	3	.250"	SPDT on-(off)	.02A@20VAC/DC	.50 x .27 x .38	—	.10	Solder right angle	White	.79	.69	.59
121305	ValuePro	GPB006-WH	23	3	.250"	SPDT on-(on)	1A @ 120VAC	.52 x .27 x .38	—	.185	Solder lugs	White	3.49	3.15	2.79
28063	ValuePro	PB126	23	3	.250"	SPDT on-(on)	5A @ 120VAC	.52 x .28 x .38	—	.185	Solder lugs	Red	3.49	3.15	2.79
154878	Eaton Corp.	PS11-123	24	3	.250"	SPDT on-(on)	5A @ 125VAC	.50 x .27 x .37	—	.14	Solder right angle	Red	1.25	1.09	.95
2125958	Judco	J987-1	25	2*	—	SPST on-off	2A @ 14VDC	.60 x .72 x .26	1.9	—	4.5" pigtail	Black	.95	.85	.75

\*Lead wires    1 Alt = alternate action    \$ Subminiature

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Cord, Slide & Toggle Switches

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

## Switchcraft® Cord-Switch®

- Maximum cable diameter: .375"
- Plastic insulation
- Button color: red
- Contact form: SPDT off-(on)
- Copper alloy plated housing and switch bushing



Part No.	Mfr. Part No.	1	10	50
297502	ED903	\$13.95	\$12.49	\$10.95

## GG® Inline Cord Switch

- Contact form: SPST on-off
- Terminal: solder
- Contact rating: 6A @ 20VDC
- Black plastic body

★ Web Code: CSH



Part No.	Mfr. Part No.	1	10	100
621270	35-1851-BU	\$3.49	\$3.19	\$2.89

## Switch Grab Bags

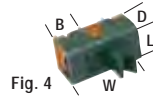
- Assorted – toggle, pushbutton, rocker and slide switches
- 18235: 50 pcs
- 135378: 150 pcs



Part No.	Product No.	Wt. (lbs.)	1	10
18235	GB165	0.4	\$8.95	\$7.95
135378	GB165LB	1.0	\$19.95	\$17.95

## Slide Switches

- Two mounting flanges
- Top actuation
- 6/6 nylon plastic housing
- Nylon actual
- Phenolic insulated

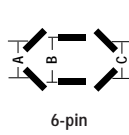
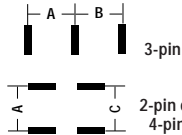


Part No.	Manufacturer	Product No.	Fig.	Pins	Contact Form	Contact Rating	Dimensions (L" x W" x D")	Lead Spacing		Housing Material	Lead Length	Actuator Height	Pricing		
								A"	B"				1	10	100
202770	Various	74650-009	1	6	SPDT on-on	0.1A @ 30VDC	.35"L x .70"W x .30"D	.17	.20	Plastic	.16"	.32"	\$2.29	\$2.25	\$1.19
588220	C&K Switches	OS102011MA1QN1	2	3	SPDT on-on	0.2A @ 30VDC	.34"L x .17"W x .15"D	—	.08	Metal	.11"	.16"	.39	.35	.29
621325	GC Electronics	35-202-BU	3	3	SPDT on-on	0.3A @ 30VAC	.44"L x .22"W x .18"D	.14	—	Metal	.14"	.16"	1.79	1.59	1.39
109171	ValuePro	G4050X-R	4	3	SPDT on-on	0.5A @ 50VDC	.22"L x .45"W x .23"D	—	.12	Plastic	.17"	.15"	.35	.29	.25
204142	C&K Switches	4102021MLOY	5	3	SPDT on-on	2.0A @ 28VDC	.77"L x .40"W x .37"D	—	.19	Plastic	.19"	.17"	.29	.25	.19
161817	ValuePro	MS-306-R	3	6	DPDT on-on	0.3A @ 6VDC	.35"L x .14"W x .14"D	.10	.10	Plastic	.14"	.08"	.59	.49	.45
2076210	CWI	GF126-1093	3	6	DPDT on-on	0.5A @ 125VDC	1.0"L x .41"W x .30"D	.19	.29	Metal	.25"	.20"	.69	.59	.49
621472	GC Electronics	35-222	6	6	DPDT on-on	6A @ 125VAC	.88"L x .53"W x .35"D	.22	.29	Plastic	.25	.36	1.49	1.25	1.09

★ Web Code: LAP

## Standard Toggle Switches

- Medium duty
- Mounting hole dia.: 1/2"



Part No.	Manufacturer	Product No.	Fig.	Pins	Contact Form	Contact Rating (A @ VAC)	Dimensions (L" x W" x D")	Lead Spacing			Terminal Type	Lever Type	Pricing		
								A"	B"	C"			1	10	100
76241	ValuePro	SWM128	1	2	SPST on-off	4 @ 125 & 2 @ 250	1.00 x .56 x .52	.23	—	—	Solder lugs	Round	\$1.79	\$1.59	\$1.35
76232	ValuePro	SWM125	2	2	SPST on-off	6 @ 125 & 3 @ 250	1.00 x .53 x .51	.23	—	—	6" lead wire	Round	2.19	1.89	1.69
2126192	LKG Philmore	30-350B	2	2	SPST on-off	8 @ 125 & 4 @ 250	1.00 x .64 x .33	.23	—	—	6" lead wire	Round	2.95	2.65	2.25
317825	ValuePro	R13-25A2-01	3	2	SPST on-off	10 @ 125 & 6 @ 250	1.14 x .59 x .62	.38	.38	—	.250" quick connect	Metal	2.49	2.19	1.89
318027	ValuePro	R13-28A-06	3	2	SPST on-off	15 @ 125 & 10 @ 250	1.33 x .75 x .75	.45	.61	.45	M3 screw	Round	1.79	1.59	1.45
318002	ValuePro	R13-28A-01	3	2	SPST on-off	15 @ 125 & 10 @ 250	1.33 x .75 x .75	.45	.61	.45	.250" quick connect	Round	2.49	2.19	1.89
621499	GC Electronics	35-3005	4	2	SPST on-off	20 @ 125	.92 x .64 x .40	—	.47	—	.250" quick connect	Bat brass	2.95	2.59	2.29
318086	ValuePro	R13-28C-01	3	3	SPDT on-on	15 @ 125 & 10 @ 250	1.33 x .75 x .75	.45	.61	.45	.250" quick connect	Round	1.69	1.49	1.25
318107	ValuePro	R13-28C-06	3	3	SPDT on-on	15 @ 125 & 10 @ 250	1.33 x .75 x .75	.45	.61	.45	M3 screw	Round	1.69	1.49	1.25
317913	ValuePro	R13-25C2-05	5	3	SPDT on-on	10 @ 125 & 6 @ 250	1.14 x .59 x .62	.38	.38	—	Solder	Metal	1.69	1.49	1.25
317905	ValuePro	R13-25C2-01	5	3	SPDT on-on	10 @ 125 & 6 @ 250	1.14 x .59 x .62	.38	.38	—	.250" quick connect	Metal	1.75	1.49	1.25
317931	ValuePro	R13-25D1-05	2	3	SPDT on-off-on	10 @ 125 & 6 @ 250	1.14 x .60 x .62	.34	.34	—	Solder lugs	Paddle	1.25	1.09	.95
318123	ValuePro	R13-28D-01	3	3	SPDT on-off-on	15 @ 125 & 10 @ 250	1.33 x .75 x .75	.45	.61	.45	.250" quick connect	Round	2.19	1.89	1.69
318141	ValuePro	R13-28D-06	3	3	SPDT on-off-on	15 @ 125 & 10 @ 250	1.33 x .75 x .75	.45	.61	.45	M3 screw	Round	3.79	3.19	2.95
158060	ValuePro	JKN32	1	4	DPST on-off	4 @ 125 & 2 @ 250	1.00 x .56 x .52	.23	—	.23	Solder lugs	Round	1.19	1.05	.89
158078	ValuePro	JKN3CC	1	6	DPDT on-on	10 @ 125 & 6 @ 250	1.19 x .76 x .73	.44	.59	.44	Screw lugs	Round	1.29	1.15	1.05
76260	ValuePro	SWM126	1	6	DPDT on-on	5 @ 125 & 3 @ 250	1.10 x .77 x .60	.30	.60	.30	Solder lugs	Round	1.75	1.59	1.45
318060	ValuePro	R13-28B-06	3	6	DPDT on-on	15 @ 125 & 10 @ 250	1.33 x .75 x .75	.45	.61	.45	M3 screw	Round	2.39	2.19	1.95
318043	ValuePro	R13-28B-01	3	6	DPDT on-on	15 @ 125 & 10 @ 250	1.33 x .75 x .75	.45	.61	.45	.250" quick connect	Round	3.95	3.39	2.49
318052	ValuePro	R13-28B-05	3	6	DPDT on-on	15 @ 125 & 10 @ 250	1.33 x .75 x .75	.45	.61	.45	Solder	Round	3.95	3.39	2.49
317850	ValuePro	R13-25B1-05	5	6	DPDT on-on	10 @ 125 & 6 @ 250	1.14 x .79 x .62	.40	.40	.40	Solder lugs	Paddle	1.95	1.75	1.59
567761	Various	SWM127	3	6	DPDT on-off-on	10 @ 125 & 5 @ 250	1.18 x .77 x .75	.40	.60	.40	M3 screw	Round	3.95	3.39	2.49
317972	ValuePro	R13-25E1-05	5	6	DPDT on-off-on	10 @ 125 & 6 @ 250	1.14 x .59 x .62	.38	.38	—	Solder	Plastic	1.95	1.75	1.59

★ Web Code: NAJ

### Accessory

Part No.	Manufacturer	Product No.	Fig.	Description	1	10	100
2126580	ValuePro	WB-A7A	6	Toggle switch boot seal, black, 15/32-32, fits standard toggle switches	\$2.25	\$1.95	\$1.75

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RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.



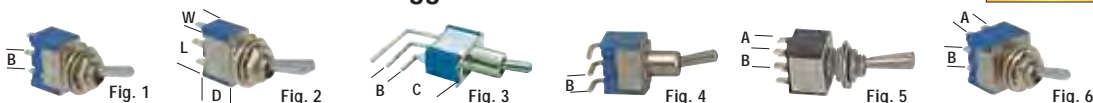
JAMECO ValuePro

• Mounting hole diameter: 1/4"  
Includes: Mounting hardware



## Miniature Toggle Switches

★ Web Code: PAJ



Part No.	Mfr.	Product No.	Fig.	Pins	Contact Form ( ) Momentary	Contact Rating (A @ VAC)	Dimensions (L" x W" x D")	Lead Spacing			Terminal Type	Lever Type	Pricing		
								A"	B"	C"			1	10	100
317228	JVP	1MS9T1B1M1QE	1	2	SPST on-off	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.190	—	Solder lugs	Round	\$1.95	\$1.75	\$1.59
76523	JVP	JMT113	1	2	SPST on-off	6 @ 125 & 3 @ 250	.52 x .32 x .38	—	0.185	—	Solder lugs	Round	1.39	1.25	1.09
317287	JVP	1MS9T6B11M1QE	2	2	SPST on-off	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Flat	1.49	1.35	1.19
777768	C&K	T101MHZQE	1	3	SPDT on-on	3 @ 120	.32 x .20 x .34	—	0.100	—	Solder lugs	Round	5.95	5.49	4.95
26332	JVP	MPC123R	1	3	SPDT on-on	6 @ 125 & 3 @ 250	.52 x .32 x .37	—	0.185	—	PC straight	Round	1.89	1.75	1.49
21936	JVP	JMT123 (blue)	1	3	SPDT on-on	6 @ 125 & 3 @ 250	.52 x .32 x .38	—	0.185	—	Solder lugs	Round	1.55	1.25	1.09
75854	JVP	SWM132 (black)	1	3	SPDT on-on	6 @ 125 & 3 @ 250	.52 x .32 x .38	—	0.185	—	Solder lugs	Round	1.55	1.25	1.09
317236	JVP	1MS1T1B1M1QE	2	3	SPDT on-on	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Round	1.39	1.25	1.09
317295	JVP	1MS1T6B11M1QE	2	3	SPDT on-on	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Flat	1.49	1.35	1.09
317279	JVP	1MS2T1B1M1QE	2	3	SPDT on-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Round	1.49	1.25	1.09
317332	JVP	1MS2T6B11M1QE	2	3	SPDT on-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Flat	1.75	1.59	1.39
22833	JVP	MS102F1-R	2	3	SPDT on-on	6 @ 125 & 3 @ 250	.52 x .28 x .36	—	0.185	—	Solder lugs	Flat	1.49	1.35	1.09
71597	JVP	SWM148	3	3	SPDT on-on	6 @ 125 & 3 @ 250	.52 x .32 x .38	—	0.133	0.51	PC right angle	Round	.99	.89	.79
75871	JVP	SWM145	4	3	SPDT on-on	6 @ 125 & 3 @ 250	.52 x .32 x .38	—	0.185	0.20	PC right angle	Round	1.49	1.35	1.09
567744	C&K	7105-S-H3-C-P-I	2	3	SPDT (on)-off-(on)	5 @ 125	.50 x .27 x .35	—	0.185	—	PC straight	Round	1.25	1.09	.79
75889	JVP	SWM129	1	3	SPDT (on)-off-(on)	6 @ 125 & 3 @ 250	.52 x .32 x .38	—	0.185	—	Solder lugs	Round	1.49	1.25	1.09
21910	JVP	JMT121	1	3	SPDT on-off-on	6 @ 125 & 3 @ 250	.52 x .32 x .38	—	0.185	—	Solder lugs	Round	1.35	1.25	1.09
26315	JVP	MPC121	1	3	SPDT on-off-on	6 @ 125 & 3 @ 250	.52 x .32 x .37	—	0.185	—	PC straight	Round	1.29	1.15	1.05
317244	JVP	1MS3T1B1M1QE	2	3	SPDT on-off-on	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Round	1.75	1.59	1.39
317308	JVP	1MS3T6B11M1QE	2	3	SPDT on-off-on	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Flat	1.75	1.59	1.39
317252	JVP	1MS4T1B1M1QE	2	3	SPDT (on)-off-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Round	1.75	1.59	1.39
317316	JVP	1MS4T6B11M1QE	2	3	SPDT (on)-off-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Flat	1.49	1.25	1.09
317261	JVP	1MS5T1B1M1QE	2	3	SPDT on-off-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Round	1.75	1.59	1.39
317324	JVP	1MS5T6B11M1QE	2	3	SPDT on-off-(on)	5 @ 120 & 2 @ 250	.50 x .27 x .35	—	0.185	—	Solder lugs	Flat	1.75	1.59	1.39
2077044	JVP	MTS-103AA	3	3	SPDT on-off-on	6 @ 125 & 3 @ 250	.52 x .32 x .39	—	0.149	0.51	PC right angle	Round	.99	.89	.79
317404	JVP	1MD9T1B1M1QE	5	6	DPST on-off	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	—	Solder lugs	Round	1.75	1.49	1.25
75900	JVP	SWM133	6	6	DPDT on-on	6 @ 125 & 3 @ 250	.52 x .52 x .38	0.20	0.185	—	Solder lugs	Round	1.79	1.59	1.35
21979	JVP	JMT223	6	6	DPDT on-on	6 @ 125 & 3 @ 250	.52 x .52 x .38	0.20	0.185	—	Solder lugs	Round	1.49	1.25	1.09
26367	JVP	GTS112-P	6	6	DPDT on-on	6 @ 125 & 3 @ 250	.52 x .50 x .41	0.20	0.157	—	PCB	Round	1.49	1.25	1.09
317412	JVP	1MD1T1B1M1QE	5	6	DPDT on-on	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	—	Solder lugs	Round	1.95	1.75	1.49
317472	JVP	1MD1T6B11M1QE	5	6	DPDT on-on	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	—	Solder lugs	Flat	1.95	1.75	1.49
317455	JVP	1MD2T1B1M1QE	5	6	DPDT on-(on)	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	—	Solder lugs	Round	1.49	1.25	1.09
317519	JVP	1MD2T6B11M1QE	5	6	DPDT on-(on)	5 @ 120 & 2 @ 250	.50 x .45 x .36	0.19	0.185	—	Solder lugs	Flat	1.75	1.49	1.25
22859	JVP	GTS172BLK	5	6	DPDT on-on	6 @ 125 & 3 @ 250	.52 x .52 x .38	0.20	0.185	—	Solder lugs	Flat	1.55	1.25	1.09
202964	◆	WI24	3	6	DPDT on-off-(on)	6 @ 125 & 3 @ 250	.50 x .50 x .46	0.15	0.150	0.055	PC right angle	Round	.99	.89	.79
75951	JVP	SWM130	6	6	DPDT (on)-off-(on)	6 @ 125 & 3 @ 250	.52 x .52 x .38	0.20	0.185	—	Solder lugs	Round	1.49	1.25	1.09
26358	JVP	MPC221	6	6	DPDT on-off-on	6 @ 125 & 3 @ 250	.52 x .52 x .38	0.20	0.185	—	PC straight	Round	1.49	1.25	1.09
21952	JVP	GTS114	6	6	DPDT on-off-on	6 @ 125 & 3 @ 250	.52 x .52 x .38	0.20	0.185	—	Solder lugs	Round	1.55	1.25	1.09
317498	JVP	1MD4T6B11M1QE	5	6	DPDT (on)-off-(on)	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	—	Solder lugs	Flat	1.95	1.75	1.59
317447	JVP	1MD5T1B1M1QE	5	6	DPDT on-off (on)	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	—	Solder lugs	Round	1.75	1.49	1.25
317501	JVP	1MD5T6B11M1QE	5	6	DPDT on-off-(on)	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	—	Solder lugs	Flat	1.75	1.49	1.25
317421	JVP	1MD3T1B1M1QE	5	6	DPDT on-off-on	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	—	Solder lugs	Round	1.49	1.35	1.19
317490	JVP	1MD3T6B11M1QE	5	6	DPDT on-off-on	5 @ 120 & 2 @ 250	.50 x .45 x .35	0.19	0.185	—	Solder lugs	Flat	1.95	1.75	1.49
22841	JVP	GTS164BLK	5	6	DPDT on-off-on	6 @ 125 & 3 @ 250	.52 x .52 x .38	0.20	0.185	—	Solder lugs	Flat	1.49	1.25	1.09
620576	GCE	35-009	6	6	DPDT on-on-on	5 @ 125	.50 x .45 x .40	.23	.15	—	Solder	Bat brass	3.95	3.59	3.19
547436	ALC	MTA306D	6	9	3PDT on-on	6 @ 125 & 3 @ 250	.70 x .51 x .45	0.19	0.190	—	Solder lugs	Round	18.95	17.49	15.95



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\* ALC = AlcoSwitch | C&K = C&K Switches | GCE = GC Electronics | JVP = Jameco ValuePro | ◆ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Subminiature Toggle, Rocker & Specialty Switches

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

## Subminiature Toggle Switches

JAMECO ValuePro

- Mounting hole diameter: 7/32"
- Pre-tinned leads
- Metal construction

Includes: Mounting hardware

Fig. 1



Fig. 2

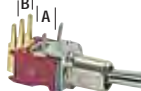
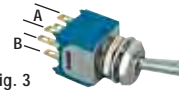


Fig. 3



\*Web Code: NAN

Part No.	Manufacturer	Product No.	Fig.	Pins	Contact Form ( ) Momentary	Contact Rating	Dimensions (L" x W" x D")	Lead Spacing		Terminal Type	Type	Pricing		
								A"	B"			1	10	100
72161	ValuePro	SW1501	1	2	SPST on-off	1.5A @ 250VAC	.33 x .21 x .33	.10	—	Solder lugs	Round	\$1.29	\$1.15	\$1.05
2121199	ValuePro	DS-4T1B1A1	1	3	SPST on-off	1.5A @ 250VAC	.33 x .21 x .33	.10	.10	Solder lugs	Round	1.29	1.15	1.05
106067	ValuePro	SWP124	2	3	SPDT on-on	0.3A @ 5VDC	.25 x .33 x .40	.20	.10	PC right angle	Round	1.89	1.75	1.49
567752	Fujisoku	AT1D-6M3	2	3	SPDT on-on	0.5A @ 48VDC/VAC	.37 x .22 x .33	.10	—	PC right angle	Round	1.09	.79	.59
75969	ValuePro	SWM136	1	3	SPDT on-on	3A @ 125VAC	.33 x .21 x .33	.10	—	Solder lugs	Round	1.69	1.49	1.29
72557	ValuePro	GTS304	1	3	SPDT on-off-on	1.5A @ 250VAC	.32 x .20 x .28	.10	—	Solder lugs	Round	1.35	1.25	1.09
2076228	C&K (sealed)	ET05J6ABE	2	3	SPDT (on)-off-(on)	4A @ 20VDC/VAC	.32 x .32 x .20	.20	.08	PC right angle	Round	.75	.59	.49
75977	ValuePro	SWM137	3	6	DPDT on-on	1.5A @ 250VAC	.33 x .37 x .33	.17	.10	Solder lugs	Round	1.49	1.35	1.09
138907	ValuePro	SW1503	3	6	DPDT on-off-on	3A @ 120VAC	.36 x .37 x .33	.17	.10	Solder lugs	Round	1.55	1.25	1.09

JAMECO ValuePro

## Panel Mount Rocker Switches



\*Web Code: VBU



### Standard Appliance Rocker Switches

Part No.	Mfr.	Product No.	Pins	Contact Form ( ) Momentary	Contact Rating (A @ VAC)	Dimensions (L" x W" x D")	Lead Space		Rocker Color	Terminal Type	Mounting Type	Pricing		
							A"	B"				1	10	100
316451	JVP	R13-243A-02	2	SPST on-off	8 @ 125	.83 x .37 x .85	0.35	—	Black	.187" quick connect	Panel mount	\$ .89	\$ .79	\$ .69
577221	CHY	RRA22H3BBNN	2	SPST on-off	10 @ 125	.69 x .51 x .64	0.35	—	Black	.187" quick connect	Panel mount	.95	.85	.75
2120196	JVP	HF-606	2	SPST on-off	10 @ 125	.83 x .59 x .55	0.27	—	Black	.187" quick connect	Panel mount	.89	.79	.69
1945276	PRO	BR-12A-55S	2	SPST on-off	10 @ 125	.83 x .59 x .59	0.31	—	Li. gray	5.5" wire leads	Panel mount	.49	.39	.29
1945284	PRO	R13-66	2	SPST on-off	10 @ 125	.83 x .59 x .55	0.31	—	Dk. gray	5.5" wire leads	Panel mount	.49	.39	.29
316128	JVP	R13-73B-R-02	3	SPST on-off	10 @ 125	.83 x .59 x .87	0.35	0.35	Red illum.	.187" quick connect	Panel mount	1.49	1.35	1.19
316136	JVP	R13-73B-Y-02	3	SPST on-off	10 @ 125	.83 x .59 x .87	0.35	0.35	Yellow illum.	.187" quick connect	Panel mount	1.25	1.09	.99
196154	JVP	R30NSA-B/B	2	SPST on-off	15 @ 125	1.07 x .42 x .77	0.45	—	Black	.250" quick connect	Panel mount	.69	.65	.55
2126205	LKG	30-600B	2	SPST on-off	20 @ 125	1.70 x .97 x .70	0.25	—	Black	.250" quick connect	Panel mount	2.49	2.25	1.95
316014	JVP	R13-66A-B-02	2	SPST on-off	16 @ 125	.83 x .59 x .63	0.31	—	Black	.187" quick connect	Panel mount	.95	.85	.75
316022	JVP	R13-66A-R-02	2	SPST on-off	16 @ 125	.83 x .59 x .63	0.31	—	Red	.187" quick connect	Panel mount	.95	.85	.65
316048	JVP	R13-66B-G-02	3	SPST on-off	16 @ 125	.83 x .59 x .47	0.31	0.31	Green illum.	.187" quick connect	Panel mount	1.19	1.05	.89
1945241	ITW	163-099-029	3	SPDT	12 @ 250	1.2 x .55 x .59	0.26	0.26	Black	.250" quick connect	Panel mount	.39	.35	.25
316072	JVP	R13-66D-02	3	SPDT on-off-on	16 @ 125	.83 x .59 x .47	0.31	0.31	Black	.187" quick connect	Panel mount	.95	.85	.75
617473	GCE	35-695	3	SPDT (on)-off-(on)	16 @ 125	.93 x .43 x .62	0.34	0.56	Black	.250" quick connect	Panel mount	4.95	4.49	3.95
316111	JVP	R13-73A2-B-02	4	DPST on-off	10 @ 125	.83 x .59 x .68	0.20	0.34	Black	.187" quick connect	Panel mount	1.49	1.35	1.19
316153	JVP	R13-73C-R-02	4	DPST on-off	10 @ 125	.83 x .59 x .87	0.20	0.34	Black	.187" quick connect	Panel mount	1.29	1.15	.95

## Specialty Switches



### Pull Chain Switch

- Current rating: 6A @ 20VAC/VDC; 3A @ 120VAC

Part No.	Mfr.	Mfr. Part No.	Contact Form	Actuator	Terminal Type	1	10	100
617764	GCE	35-864	SPST on-off	3 1/2" pull chain	6" wires	\$3.69	\$3.29	\$2.95

\*Web Code: SPS

### Magnetic Proximity

- Current rating: 0.5A @ 20VAC/VDC; 0.08A @ 120VAC, P/N 588123/588182/588131: 30VAC @ .3A

Part No.	GCE	35-752	SPDT NO/NC	Use magnet	Leaded SD	\$4.95	\$4.49	\$3.95
617545	GCE	35-756	SPDT NO/NC w/o magnet	Need magnet	Screw term., 1/4" gap, surface mount	6.95	6.29	5.69
588123	C&K	MPS20WGW	SPST NO	Use magnet	Screw term., 1" gap, surface mount	10.95	10.49	9.95
588182	C&K	MPS9WGW	SPST NO	Use magnet	Lead wires, 22AWG, 12"L	8.95	7.95	7.49
588131	C&K	MPS45WGW	SPST NO	Use magnet	Lead wires, 22AWG, 12"L	6.29	5.79	5.35

### Knife Switch

- Current rating: 0.5A @ 6VDC • Mounting hole: 3.4mm

Part No.	GCE	35-730	DPDT on-off-on	Plastic handle	Screw terminal, 0.6" gap/1.25" gap	\$5.95	\$5.35	\$4.79
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## Switch Assortment Kit

- 20-drawer component cabinet (319600),
- 20 clear plastic drawers (319601),
- 20 clear dividers (319611), pg 163 **SAVE \$64**
- 30 adhesive labels for drawers to identify parts in kit
- 10 ea. miniature toggle switches (76523, 21936, 21910, 26332, 26315, 21979, 21952, 26367, 26358), pg 85
- 10 ea. slide switches (109171), pg 84
- 10 ea. pushbutton switches (26623, 26649), pg 83
- 10 ea. DIP switches (38818, 38843), pg 87
- 10 ea. tactile switches (153252), pg 88

Part No.	Description	Wt. (lbs.)	1	5
85059	150 pcs. switch kit	5.0	\$99.95	\$89.95

Over 5,000 SKUs and over 15 Million Parts in Stock  
In Lots of up to 1000 Pieces Priced Below a Dollar.

Look for pricing shaded in blue throughout the catalog and for a larger selection go to:

[Jameco.com/MakesCents](http://Jameco.com/MakesCents)

\* CHY = Cherry | C&K = C&K Switches | GCE = GC Electronics | JVP = Jameco ValuePro | ITW = Illinois Tool | LKG = LKG Industries Inc. | PRO = Pronic Electronic

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

## Rotary DIP Switches

- Gold plated contacts to ensure reliable, low resistance connection
- Fully sealed construction
- Terminals: PC pin leads
- Life: 10,000 cycles min.
- Op. force: 500g-cm max.
- Lead spacing: A = 0.1"; B = 0.3"
- Material: UL94V-0 grade
- Max. switching load rating: 25mA @ 24VDC
- Size: .39"W x .39"D x .20"H • Top adjustment



139636  
★ Web Code: UAX

Part No.	Mfr. Part No.	Type	Pos.	1	10
139636	ERD110RSZ	BCD	10	..... \$2.89	\$2.59
139652	ERD116RSZ	HEX	16	..... 2.95	2.65

## Standard, Low Profile, Piano & Right Angle DIP Switches



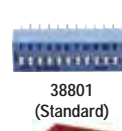
696950  
(Standard)



38842  
(Standard)



696917  
(Standard)



38801  
(Standard)



139003  
(Low Profile)



139012  
(Low Profile)



2076156  
(Right Angle)



696802  
(Piano Style)

Compatible Socket Chart,  
see page 16 for Sockets

Switch	Socket	Switch	Socket
2-position	112193	7-position	112214
3-position	112193	8-position	112222
4-position	112206	9-position	112231
5-position	112214	10-position	38608
6-position	112214	12-position	112282

★ Web Code: UCY

• Switch contacts: SPST (except P/N 2122781 – DPST)

• Piano switches have raised lever

## 94H Series Rotary DIP Switches

- Make & break rating: 30mA @ 30VDC for 10,000 cycles
- Contact res.: 50mΩ max.
- Type: BCD 10-position
- Carrying current rating: 100mA @ 50VDC
- Insulation resistance: 5,000MΩ min.
- Contact material: 30μ" gold over 50μ" nickel



697071

788555

Part No.	Mfr. Part No.	Actuator	1	10
697071	94HAB10RAT	Flush right angle ..	\$1.95	\$1.75
788555	94HBB10T	0.270", straight .....	2.49	2.25

## Rotary Switches

- Contact rating: 30VDC @ 0.3A; except P/N 2099631: 125VAC @ 0.3A
- Insulation resistance: 10MΩ min.
- Mounting hole diameter: 3/8"; except P/N 2099631: 0.348"
- Contact resistance: 30mΩ
- Material: solid brass bushings, slotted aluminum shafts (except for P/N 2099631: D-type and P/N 622352); round, plated frame, plastic contact wafer (except for P/N 622352/2099631 – phenolic casing)
- Make before break; except P/N 2099631: break before make
- Solder eyelet lugs
- Shaft size: 0.46"L x 0.25" Dia.; except P/N 622352: 1.5"L x 0.25" Dia. and P/N 2099631: 0.34"L x 0.25" Dia.



101574  
★ Web Code: DAM

Includes: Washer and nut

Part No.	Product No.	Poles	Pos.	1	10	100
101532	G3SR026	1	12	..... \$0.95	\$0.85	\$0.75
622352	35-3761	1	12	..... 2.95	2.65	2.39
2099631	SR2511-0205	2	5	..... .95	.85	.75
101574	G3SR022	2	6	..... .95	.85	.75
101566	G3SR023	3	4	..... .95	.85	.75
101558	G3SR024	4	3	..... .95	.85	.75

† Solder eyelet style

## C&K A Series Rotary Switches

- 1.5"H flatted actuator
- 3/8-32 threaded mounting style
- Solder lug terminals
- Dielectric strength: 1000Vrms
- 15,000 make & break cycles
- Contacts and terminals: brass, silver plated
- Contact resistance: 20mΩ typical @ 2-4VDC
- Contact rating: 2.5A @ 125VAC; 250mA @ 250VDC
- Housing/actuator: glass filled 6/6 nylon (UL94V-0)



576501

Part No.	Mfr. Part No.	Type	Pos.	1	10
576501	A11215RNZQ	SP, 300 index	12	\$6.95	\$6.25
576421	A20615RNZQ	DP, 300 index	6	5.95	5.49

\* ALC = Alcoswitch | AMP = AMP/Tyco | BNS = Bourns | C&K = C&K Switches | FJT = Fujitsu | GRY = Grayhill | JVP = Jameco ValuePro | OMN = Omron | ♦ Manufacturer Varies

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

Part No.	Product No.	*Mfr.	*Type	Pos.	1	10	100
2122781	78F02	GRY	1,5	2	\$.69	\$.59	\$.49
1951385	206-2LP	♦	2,6	2	.69	.59	.45
2076156	SDAX-2RX-X	BNS	3,5	2	.59	.45	.39
109059	206-2-VP-R	JVP	3,5	2	.79	.69	.59
206359	206-3	♦	1,5	3	.65	.55	.45
202472	ADF03	ALC	2,6	3	.59	.49	.45
696802	DP-04B	JVP	1,4	4	.95	.85	.75
38818	206-4	♦	1,5	4	.59	.55	.49
38820	DT-04VP	JVP	1,5	4	.75	.65	.59
696950	78B04ST	GRY	1,5	4	1.15	1.05	.85
2082231	3-4356405	AMP	1,7	4	.79	.69	.59
696888	76SB04	GRY	1,7	4	.95	.89	.79
206499	DPS804	FJT	2,4	4	.69	.59	.49
139003	206-4LP	JVP	2,5	4	.75	.65	.55
2076164	SDAX-4RX-X	BNS	3,5	4	.59	.45	.39
2076181	SDAX-4RX-T	BNS	3,5	4	.69	.59	.49
2082249	JS8805	♦	1,6	5	.59	.49	.39
2082505	206-517	♦	1,7	5	.59	.49	.45
2082513	206-518	AMP	1,8	5	.59	.49	.45
2076674	DPL-06KT	♦	1,4	6	.69	.59	.49
38826	206-6	JVP	1,5	6	.89	.79	.69
2076201	A6D-6100LP	OMN	2,6	6	.69	.59	.45
38834	206-7	♦	1,5	7	.95	.89	.79

\* 1. Standard; 2. Low Profile; 3. Right Angle; 4. Piano Style; 5. Slide Raised; 6. Slide Flush; 7. Rocker Raised; 8. Rocker Flush

JAMECO ValuePro

## Tri-State DIP Switch

- Pre-tinned leads
- Two isolated buses
- Labeled tri-state positions (+, 0, -)
- Switch contacts: bused, tri-state
- Compatible socket, use P/N 37373, pg 16

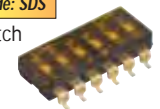


Part No.	Cross Ref. No.	Positions	Contact Rating	1	10	100	500
138992	ETA108E	8	24VDC @ 25mA	..... \$1.95	\$1.75	\$1.49	\$1.25

## SMT Low Profile DIP Switches

★ Web Code: SDS

- Insulation resistance: 1000MΩ (min.) across open switch & between adjacent closed switch
- Contact resistance: 100mΩ initial
- Dielectric strength: 300VAC for 1 min.
- Gold plated beryllium copper contacts, gold flash coated terminals
- Bottom seal/top tape seal
- Non-switching rating: 100mA or 50VDC max.
- Length: 0.246"



Part No.	Manufacturer	Product No.	Positions	Type	1	10	100
2076199	Grayhill	90HB104SR	4	SPST	..... \$0.35	\$0.25	\$0.19
546759	Various	3-435668	5	SPST	..... .39	.29	.25
1945022	Various	SMT-6PDS	6	SPST	..... .49	.35	.29

JAMECO ValuePro

## SPST Round Keylock Switches

- Used in computer and other security systems
- Mounting hole = 0.75" (except P/N 106650 = 0.5")
- Key removable from 2 positions
- 105832: All keys are different; 196649: All keys are alike
- Includes: Mounting nut

JAMECO EXCLUSIVE

★ Web Code: RAN



Part No.	Cross Ref. No.	No. Flat, Dia.	Length	Terminal	Voltage/Current	1	10	100
106650	KS4B	2, 0.21"	0.55"	Barrel	125VAC/3A	\$4.95	\$4.49	\$3.95
105832	KS3B	2, 0.66"	1.48"	0.25" quick connect	125VAC/6A	5.49	4.95	4.49
196649	3313E-M	2, 0.66"	1.48"	0.25" quick connect	125VAC/6A	5.49	4.95	4.49

# Keypad & Tactile Switches

4 LEVELS OF SAVINGS		
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		DOLLAR SALE

## 12-Button Keypads

- Contact resistance: 200Ω max.

### Numeric

- 8-pin & 10-pin .100" header
- 10 pin w/ multicolor wires
- Contact rating: 12VDC @ 20mA
- Life test: 1,000,000 cycles per key
- Size: 3.0"L x 2.2"W x 0.6"H (8-pin) white
- Size: 2.5"L x 2.1"W x 0.4"H (10-pin) black

Part No.	Description	1	10	100
190562	8-pin header keypad	\$6.95	\$6.25	\$4.95
2081828	10-pin wire keypad	4.95	4.49	3.95
2082206	10-pin header keypad	5.95	4.95	4.49

### Alpha/Numeric – Nickel

- 8-pin solder pad .100" header
- Contact rating: 24VDC @ 20mA
- Life test: 2,000,000 cycles per key
- Nickel metal form factor and keys
- Size: 4.36"L x 1.56"W x 0.62"H
- Recommended conn.: P/N 103191 header

Part No.	Description	1	10	100
2113455	2x6 keypad	\$18.95	\$16.95	\$15.49

## 16-Button Indoor/Outdoor Keypads

- 9-pin .100" headers
- Compatible with MOS, TTL and DTL (10Ω max.)
- Contact rating: 24VDC @ 10mA resistive
- Fully sealed snap-dome contact
- Life test: 3,000,000 cycles per key
- Size (housing): 4.7"W x 1.7"H x 0.4"T
- Recommended connector: P/N 103191 header & 100766 pin, pg 72

Part No.	Description	1	10	100
196171	2x8 matrix keypad	\$14.95	\$13.49	\$12.49
152063	4x4 matrix keypad	16.95	15.49	13.95

★ Keypads Online — Enter Web Code XBA

## 16-Button Numeric Keypad

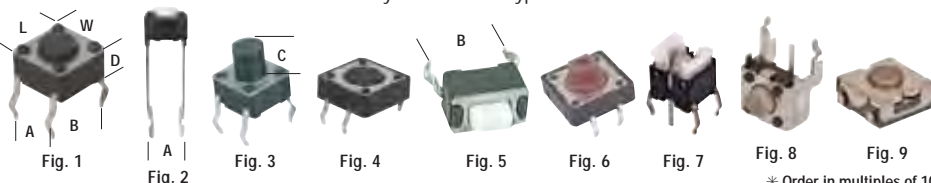
- 8-pin solder pad
- Life test: 1,000,000 life cycles per key
- 8-pin male header connector included
- Size: 3.0"L x 2.8"W x 0.6"H

Part No.	Description	Contact Rating	Contact Resis.	1	10	100
169245	4x4 keypad	24VDC @ 20mA	200Ω max.	\$9.95	\$8.95	\$7.95

## Tactile Switches

★ Web Code: QBF

- Bounce time: 10 msec.
- SPST momentary ON
- Lead type: PC
- Contact resistance: 100mΩ



Part No.	*Mfr.	Product No.	Fig.	Pins	Dimensions (ins.)				Lead Spacing		Contact Rating	Button Color	Pricing		
					L	W	D	C	A"	B"	(mA @ VDC)		1	10	100
1586074	PAN	EVQ-PAG04K	1	4	.24	.24	.14	.05	.17	.26	20 @ 12	Black	\$ .29	\$ .25	\$ .19
199726	PAN	EVQ11A04M	2	2	.24	.24	.14	.03	.20	.17	20 @ 15	White	.35	.29	.25
2095120	PAN	EVQ11L07K	2	2	.24	.24	.14	.11	.20	—	20 @ 15	Black	.35	.29	.25
119011	JVP	KT1IBICM	1	4	.24	.24	.15	.03	.17	.25	20 @ 15	Black	.29	.25	.19
149948	JVP	KT11P4CM	3	4	.24	.24	.15	.13	.17	.25	20 @ 15	Black	.29	.25	.19
122973	JVP	DTS1212	4	4	.47	.47	.18	—	.20	.50	20 @ 15	Black	.35	.29	.25
155249	JVP	KRS-3550-BK	5	2	.24	.14	.15	—	—	.27	50 @ 12	Black	.35	.29	.25
155256	◆	KRS-3550-WH	5	2	.24	.14	.15	.03	—	.26	50 @ 12	White	.35	.29	.25
153252	JVP	SDT620K	1	4	.24	.24	.15	.06	.17	.25	50 @ 12	Black	.29	.25	.19
155380	JVP	KRS-1273B	6	4	.47	.47	.14	.14	.17	.53	50 @ 12	Brown	.39	.35	.29
153251	ESW	TL1105-A+	1	4	.24	.24	.15	.06	.17	.25	50 @ 12	Black	*	.19	.15
202956	◆	KSM06330	7	2	.24	.24	.15	.38	.11	.18	50 @ 24	Red	*	.19	.15
162886	OMN	B3F-1000	1	4	.24	.24	.13	.03	.17	.25	50 @ 24	White	.35	.29	.25
1953575	OMN	B3F-3122	8	4	.29	.29	.25	.06	.17	.28	50 @ 24	Gray	.29	.25	.19
2076261	OMN	B3E-1100-Red*	7	4	.24	.24	.19	.07	.17	.25	50 @ 24	Red	.49	.39	.29
2076287	OMN	B3E-1300-Green*	7	4	.24	.24	.19	.07	.17	.25	50 @ 24	Green	.49	.39	.29
2076252	ITT	KSC121JB	9	4	.24	.24	.10	—	.15	.26	50 @ 32	Gray	*	.19	.15
2076148	◆	KFC-A12-A	1	4	.47	.47	.15	.08	.17	.50	100 @ 50	Black	.39	.35	.29

\* Illuminated

◆ See switch cap below



155389



155409

Order in multiples of 10

### Tactile Switch Caps

Part No.	*Mfr.	Cross Ref. No.	Description	Dimensions	Material	For Use With	10	100	1000
155389	JVP	KRS-CAP-A	Square	.47"L x .47"W x .16"H	Plastic	P/N 155380	\$15	\$12	\$09
155409	JVP	KRS-CAP-B	Round	.50"Dia. x .25"H	Plastic	P/N 155380	.15	.12	.09

## Relays

### DIP Relays

★ Web Code: QAN

**Aromat** **EGE** **KEST** **HAMLIN**

- Logic control levels
- Long life with reliable operation
- Excellent for PCB applications
- Compatible with IC sockets
- Compact design/construction
- Moisture resistant



106463



1860088



2081377

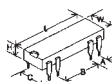


Fig. 1

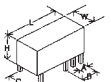


Fig. 2

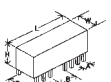


Fig. 3

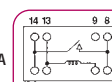


Fig. 4

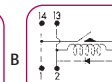


Fig. 5

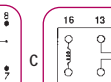


Fig. 6



Fig. 7

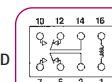


Fig. 8

Part No.	Manufacturer	Product No.	Fig.	Contact Form	Coil Voltage	Coil Ohms	Contact Voltage	Contact Current	Pins	Jameco Socket	Dimensions (L" x W" x H")	Leads (A" x B" x C")	Pricing		
106463	Excel	201A05	1A	SPST-NO	5VDC	500	100VDC	0.5A	8	37162	.78 x .25 x .20	.10 x .40 x .30	\$2.49	\$2.19	\$1.95
138431	Excel	2D1A05	1B	SPST-NO	5VDC	500	100VDC	0.5A	8	37162	.77 x .30 x .22	.10 x .40 x .30	2.49	2.19	1.95
1860088	Hamlin Breed	HE3621A0510	—	SPST-NO	5VDC	1000	200VDC	0.5A	4†	—	.75 x .20 x .30	.20 x .60	1.19	.95	.89
106472	Excel	201A1Z	1A	SPST-NO	12VDC	1000	100VDC	0.5A	8	37161	.78 x .25 x .20	.10 x .40 x .30	1.95	1.75	1.49
173914	Aromat	DS2YE-S-DC5V	2C	DPDT	5VDC	125	125VAC/100VDC	0.5A/1.25A	8	37401	.79 x .38 x .44	.18 x .28 x .29	2.19	1.95	1.75
139977	ValuePro	RSB5S	2C	DPDT	5VDC	125	120VAC/30VDC	1A/2A	8	37373	.79 x .39 x .37	.20 x .40 x .30	2.49	2.19	1.95
2081414	KEST	KS2E-M-DC5	2C	DPDT	5VDC	128	125VAC/28VDC	1A/2A	8	37373	.83 x .40 x .48	.20 x .30 x .30	2.49	2.19	1.95
2081377	KEST	KS2E-M-DC12	2C	DPDT	12VDC	708	125VAC/28VDC	1A/2A	8	37373	.83 x .40 x .48	.20 x .30 x .30	2.49	2.19	1.95
99311	Aromat (NAIS)	DS2Y-S-DC12V	2C	DPDT	12VDC	720	110VAC/30VDC	0.3A/1A	8	37373	.79 x .40 x .43	.20 x .40 x .30	2.75	2.49	2.25
2081406	KEST	KS2E-M-DC24	2C	DPDT	24VDC	1440	125VAC/28VDC	1A/2A	8	37373	.83 x .40 x .48	.20 x .30 x .30	2.49	2.19	1.95
136549	Aromat	DS4E-M-DC5V	3D	4PDT	5VDC	62.5	125VAC/30VDC	0.6A/2A	14	112301	1.40 x .40 x .36	.20 x .30 x .30	6.95	6.25	5.75

† SIP

\* ESW = E-Switch Inc. | ITT = ITT Cannon | JVP = Jameco ValuePro | OMN = Omron | PAN = Panasonic | ◆ Manufacturer Varies

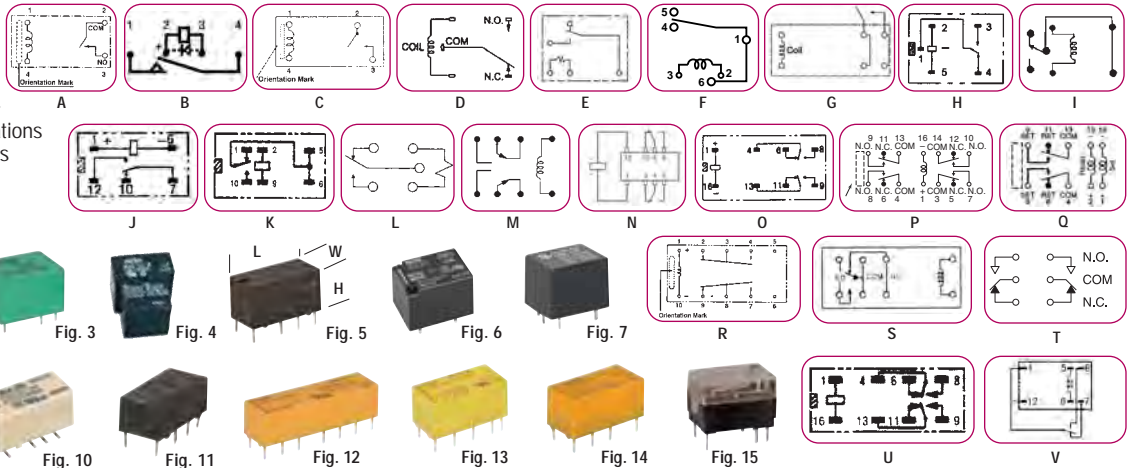
RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.



## Small PC Mount Relays

Designed for the appliance and temperature control markets, these relays are also well suited for automotive load management.

- Mechanical life: 10 million operations
- Electrical life: 100,000 operations
- Dielectric strength: 1500V<sub>RMS</sub> (between contact and coil)



Part No.	Manufacturer	Mfr. Part No.	Potter & Brumfield Cross Reference	Fig.	Contact Form	Coil Voltage	Coil (Ohms)	Contact Current	Contact Voltage	Pins	Dimensions (L" x W" x H")	Pricing		
												1	10	50
2077394	Fujitsu	JV-3S-KT	—	1A	SPST-NO	3VDC	45	5A	250VAC/30VDC	4	.69 x .39 x .49	\$2.49	\$2.25	\$2.09
1860070	Hamlin	HE3621A0500	—	1B	SPST-NO	5VDC	500	1A	200VDC	4	.75 x .19 x .30	1.75	1.55	1.39
2077271	Fujitsu	FTR-F2AL006T	—	1C	SPST-NO	6VDC	145	5A	250VAC/30VDC	4	.95 x .43 x .98	1.25	1.09	.99
2077378	Fujitsu	FBR161NED006-WB	—	2D	SPST	6VDC	100	10A	120VAC/30VDC	5	.85 x .63 x .63	1.49	1.29	1.09
2120217	Bestar	BS-114	—	3E	SPST	12VDC	320	10A	120VAC/30VDC	5	.85 x .63 x .63	2.49	2.25	1.95
145753	Rayex*	L90A-12W	T90S1D12-12	4F	SPST	12VDC	155	30A/20A	240VAC/28VDC	5	1.2 x 1.0 x .77	2.95	2.75	2.49
2125350	Panasonic	ALZ21B24	—	5G	SPST	24VDC	1440	16A	440VAC	6	1.13 x .49 x .62	2.95	2.75	2.49
134949	Rayex	L90-5W	T90S5D12-5	4F	SPDT	5VDC	27	20A	240VAC/28VDC	6	1.3 x 1.1 x .80	2.29	2.09	1.89
187151	Omron	G5LE-1DC5	—	2H	SPDT	5VDC	63	10A/8A	120VAC/30VDC	5	.90 x .65 x .75	1.49	1.29	1.09
843155	Panasonic	JS1-5V	T7C55D-05	6D	SPDT	5VDC	69.4	10A/5A	250VAC/100VDC	5	.87 x .63 x .63	1.39	1.19	1.09
174450	Rayex	LU-5	T81H5D215	7I	SPDT	5VDC	125	1A/2A	120VAC/24VDC	6	.60 x .40 x .45	1.95	1.69	1.49
187418	Omron	G6E-134P-ST-US-DC5	—	8J	SPDT	5VDC	125	.4A/2A	125VAC/30VDC	5	.63 x .39 x .33	2.95	2.75	2.49
187240	Omron	G5V-1-DC5	T5C-105L3H	8K	SPDT	5VDC	166.7	.5A/1A	125VAC/24VDC	6	.50 x .30 x .40	2.95	2.59	2.35
2131805	Fujitsu	FBR211AD006M	—	15V	SPDT	6VDC	80	.5A/1A	120VAC/28VDC	6	.59 x .40 x .41	1.75	1.49	1.25
45563	Hasco	KLTIC12DC9	—	7L	SPDT	9VDC	225	12A	120VAC/28VDC	5	.73 x .59 x .61	1.95	1.75	1.49
144186	Velleman	JZC-22F	VR15M121C	7L	SPDT	12VDC	337	15A	120VAC/28VDC	5	.80 x .64 x .80	2.95	2.75	2.49
174432	Rayex	LEG-12F	T7CS5D12	7L	SPDT	12VDC	400	15A	120VAC/24VDC	5	.76 x .62 x .60	2.09	1.89	1.59
184461	Omron	G5V-1-DC12	—	8K	SPDT	12VDC	960	.5A/1A	125VAC/24VDC	6	.50 x .30 x .40	2.49	2.29	2.09
172937	Nais (Aromat)	JS1-12V	T72M5D121-12	6D	SPDT	12VDC	400	10A/5A	125VAC/24VDC	5	.85 x .62 x .63	1.39	1.19	1.09
2078186	Fujitsu	FBR161NED012	T7CS5D-12	7D	SPDT	12VDC	400	10A	125VAC/30VAC	5	.80 x .60 x .60	1.49	1.25	1.09
843201	Nais (Aromat)	JW1FSN-DC24V	RTB14024F	9D	SPDT	24VDC	1100	10A/10A	250VAC/30VDC	5	1.11 x .49 x .78	2.25	1.99	1.79
187400	Omron	G6E-134P-ST-US-DC48	—	8J	SPDT	48VDC	5760	.4A/2A	125VAC/30VDC	5	.63 x .39 x .33	1.95	1.75	1.59
15051	Panasonic	AGQ200A4HZ	SMD-PKG	10M	DPDT	4.5VDC	145	.3A/1A	125VAC/30VDC	8	.417 x .283 x .213	.99	.95	.89
2077255	NEC	EE2-4.5NUX-L	SMD-PKG	10M	DPDT	4.5VDC	145	.5/2A	125VAC/30VDC	8	.59 x .30 x .35	.99	.89	.79
2095390	Axicom	V23079A1011B301	—	5N	DPDT	4.5VDC	145	2A	250VAC/220VDC	10	.57 x .28 x .39	1.95	1.75	1.49
2077415	Fujitsu	BA-5W-K	—	11M	DPDT	5VDC	100	.5A/1A	125VAC/30VDC	8	.59 x .29 x .38	1.95	1.75	1.59
187282	Omron	G6A-234PSTUSDC5	C93416	11O	DPDT	5VDC	125	.3A/1A	125VAC/30VDC	8	.80 x .33 x .40	5.95	5.75	5.49
842953	Panasonic	DS2E-S-DC5V	—	12P	DPDT	5VDC	125	2A	125VAC/30VDC	8	.79 x .39 x .39	3.95	3.59	3.29
843649	Panasonic	TXA2SA-5V	—	10M	DPDT	5VDC	178	2A	30VDC	8	.59 x .29 x .22	1.95	1.69	1.49
2081650	NEC	EC2-5NJ	—	5M	DPDT	5VDC	178	2A	220VAC/220VDC	8	.59 x .30 x .37	2.65	2.39	2.09
2077263	Siemens	V23079-F1101-B301	SMD-PKG	10M	DPDT	5VDC	357	5A	250VAC/220VDC	10	.57 x .28 x .41	1.95	1.69	1.49
2120516	Panasonic	DS2Y-SL2-DC6V	—	13O	DPDT	6VDC	200	2A	250VAC/220VDC	10	.79 x .39 x .37	1.95	1.69	1.49
2077386	Fujitsu	AL-D9W-K	—	11R	DPDT	9VDC	45	.5A/1A	125VAC/30VDC	10	.55 x .35 x .20	2.95	2.75	2.49
174378	Rayex	LM2-12D	RKA5DZ12	1S	DPDT	12VDC	270	5A	250VAC/30VDC	8	1.2 x .48 x 1.0	2.75	2.49	2.25
187258	Omron	G5V-2-DC12	—	5T	DPDT	12VDC	288	.5A/2A	125VAC/30VDC	8	.81 x .40 x .45	3.25	2.95	2.69
842873	Panasonic	DS2E-ML2-DC12V	—	14T	DPDT	12VDC	400	2A	250VAC/220VDC	10	.79 x .39 x .39	4.25	3.95	3.69
2078215	Omron	G2VN-234P-US	—	11O	DPDT	24VDC	1600	.5A/1.5A	120VAC/30VDC	8	.77 x .39 x .401	2.19	1.89	1.49
200740	Omron	G5V-2-HI	—	5U	DPDT	24VDC	2800	.5A/1A	125VAC/24VDC	8	.81 x .40 x .45	2.29	2.09	1.89
2078274	Fujitsu	FBR46D024	—	11O	DPDT	24VDC	2880	.5A/1A	120VAC/30VDC	8	.63 x .39 x .33	1.65	1.49	1.25

\* Manufacturer may vary # SIP package † SMD package †† Latching

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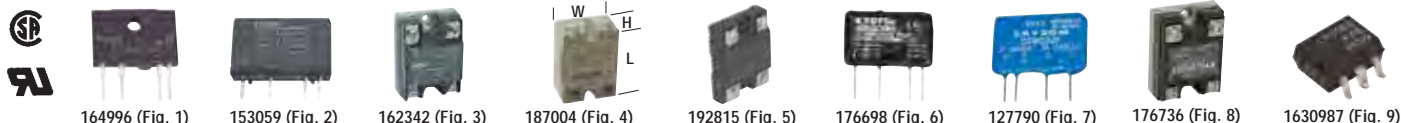
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# Solid State, Enclosed & Reed Relays

4 LEVELS OF SAVINGS		
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		DOLLAR SALE

## DC/AC and DC/DC Solid State Relays

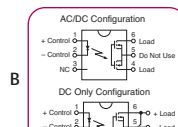
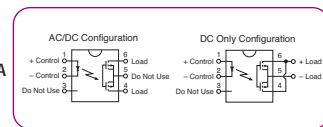
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Part No.	Mfr.	Mfr. Part No.	Control Voltage	Type	Contact Form	Contact Voltage	Contact Current	Pins	Fig.	Terminal Type	Agency Approval	Dimentions (L" x W" x H")	Pricing		
													1	10	50
Solid State Relays DC/AC Type															
164988	Sharp	S101S02	1.2VDC@20mA	DC/AC	SPST	125VAC	1.5A	4	1	Solder lead	UL/CSA	0.9 x .16 x .63	\$3.95	\$3.39	\$2.95
164996	Sharp	S202TA1	1.2VDC@20mA	DC/AC	SPST	200VAC	2.0A	4	1	Solder lead	UL/CSA	0.9 x .16 x .63	5.95	5.49	4.95
153059	Rayex	RSR2ND-A24003	4-32VDC	DC/AC	SPST	240VAC	3A	4	2	Solder lead	UL	1.7 x 0.4 x 2.0	9.95	8.95	7.95
162342	Excel	ESR51024-010	3-32VDC	DC/AC	SPST	240VAC	10A	4	3	Screw terminal	UL	1.7 x 1.1 x 2.3	18.95	16.95	15.49
186992	Omron	G3NA-210B-DC5-24	5-24VDC	DC/AC	SPST	240VAC	10A	4	4	Screw terminal	UL/CSA	1.7 x 1.1 x 2.3	16.95	15.95	14.95
187004	Omron	G3NA-220B-DC5-24	5-24VDC	DC/AC	SPST	240VAC	20A	4	4	Screw terminal	UL/CSA	1.7 x 1.1 x 2.3	19.95	17.95	15.95
162369	Excel	ESR51024-025	3-32VDC	DC/AC	SPST	240VAC	25A	4	3	Screw terminal	UL	1.7 x 1.1 x 2.3	27.95	24.95	21.95
162406	Excel	ESR51024-040	3-32VDC	DC/AC	SPST	240VAC	40A	4	3	Screw terminal	UL	1.7 x 1.1 x 2.3	24.95	22.49	19.95
192815	COSMO	KSD240AC8	4-32VDC	DC/AC	SPST	250VAC	40A	4	5	Screw terminal	—	1.8 x 0.6 x 2.3	19.95	17.95	15.95
175214	Kyoto	KB20C02A	3-32VDC	DC/AC	SPST	280VAC	2A	4	6	Solder lead	CE	1.4 x 0.3 x 1.5	7.95	7.29	6.59
127790	Crydom	D2W202F	13-32VDC	DC/AC	SPST	280VAC	2A	4	7	Solder lead	UL/CSA	1.7 x 0.4 x 1.3	12.95	11.95	10.95
176698	Kyoto	KB20C06A	3-32VDC	DC/AC	SPST	280VAC	6A	4	6	Solder lead	CE	1.4 x 0.3 x 0.9	10.89	9.79	8.69
176719	Kyoto	KD20C40AX	3-32VDC	DC/AC	SPST	280VAC	40A	4	8	Screw terminal	UL/CE	1.7 x 0.9 x 2.3	19.95	17.95	15.95
176736	Kyoto	KD20C75AX	3-32VDC	DC/AC	SPST	280VAC	75A	4	8	Screw terminal	UL/CE	1.7 x 0.9 x 2.3	34.95	31.49	28.95
Solid State Relays DC/DC Type															
172591	Kyoto	KF0602D	3-32VDC	DC/DC	SPST	60VDC	2A	4	6	Solder lead	CE	1.4 x 0.3 x 0.9	\$9.95	\$8.95	\$7.95
175222	Kyoto	KF0604D	3-32VDC	DC/DC	SPST	60VDC	4A	4	6	Solder lead	CE	1.5 x 0.3 x 0.9	9.95	8.95	7.95
176648	Kyoto	KG1005D	3-32VDC	DC/DC	SPST	120VDC	5A	4	8	Screw terminal	CE	2.3 x 1.7 x 0.9	24.95	22.49	19.95
176655	Kyoto	KG1010D	3-32VDC	DC/DC	SPST	120VDC	10A	4	8	Screw terminal	CE	2.3 x 1.7 x 0.9	24.95	22.49	19.95
1630987	Infineon	LH1500AAB	—	DC/DC	SPST	350VDC	0.15A	6	9	SOIC-6	UL/CSA	.34 x .26 x .15	.99	.89	.79



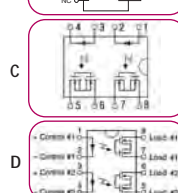
## OptoMOS® Solid State Relays



\*Web Code: WDX

Fig. 1 Fig. 2

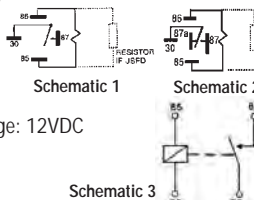
Part No.	Mfr. Part No.	Package	Description	Fig.	Load Voltage (V)	Current Handling (mA)	On-Resistance (Ω)	Isolation Voltage (Vrms)	Input Control Current (mA)	Off-State Leakage (μA)	Switching Speed (on/off) (ms)	Pricing		
1583041	LCA710	DIP-6	Single pole, 1-Form-A	1A	60	1000	0.5	3750	10	1	2.5/0.25	\$4.95	\$4.49	\$3.95
1582997	LCA110	DIP-6	Single pole, 1-Form-A	1B	350	120	35	3750	2	1	3/3	1.85	1.65	1.49
1582989	LBA110S	SOIC-8	Dual single pole, 1-Form-A	2C	350	120	35	3750	2	1	3/3	3.59	3.29	3.09
1582903	LAA110	DIP-8	Dual single pole, 1-Form-A	1D	350	120	35	3750	5	1	3/3	3.49	3.09	2.75



## Potter & Brumfield Equivalent Plastic Enclosed Construction Relays

### VF Series

- Dielectric strength: 500VDC (between contact & coil)
- Operating temp.: -35°C to +85°C
- Contact current: 40A • Coil voltage: 12VDC
- Terminal type: quick connect
- Normally open (NO)
- Dimensions: 1.1"L x 1.1"W x 1.0"H



\*Web Code: PBB



## Reed Type Relay

- Contact form: SPST-NO
- Terminal type: PCB solder
- Contact voltage: 111448: 120VAC/60VDC; 2099358: 150VAC/VDC
- Coil voltage @ contact rating: 111448: 12V @ 11.4mA; 2099358: 12VDC @ 0.1A
- Dimensions: 111448: 1.0"L x 0.37"W x 0.38"H; 2099358: 0.82"L x 0.25"W x 0.27"H

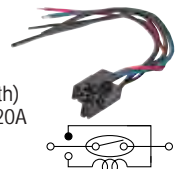


Part No.	Product No.	Pins	1	10	50
111448	BR-1050	4	\$1.95	\$1.75	\$1.49
2099358	2900-0043	5	3.95	3.59	3.25

## Relay Socket with Coil Diode

### VF Series

- 14 AWG: 2 black & 1 blue wire; 18 AWG: 1 black & 1 red wire (7.5" length)
- Contact voltage/current: 12V/20A
- Diode coil suppression
- Use with P/N 148583, left



Part No.	Product No.	1	10	50
170624	RSD03	\$2.29	\$2.09	\$1.89

\* PCB terminals † Comes with a removable clip

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

For complete specifications  
visit [www.Jameco.com](http://www.Jameco.com)

## General Purpose Power Relays

★ Web Code: GPR

Part No.	Mfr.	Product No.	Contact Form	Rating	Contact Rating	Coil Resis.	Contact Type	1	10	50
454571	Omron	G7L-1A-TUB-CB-DC24	SPST-NO	24VDC @ 79mA	25A, 220VAC	303Ω	.250" quick connect	\$7.95	\$6.95	\$5.95
611928	P&B	T9AP1D52-48-03	SPST-NO	48VDC @ 21mA	30A, 240VAC	2304Ω	Quick connect: .187" for coil/.250" for contacts	3.95	3.69	3.39
137358	ValuePro	953-1C12DM-R	SPDT	12VDC @ 77mA	20A, 240VAC/28VDC	155Ω	Quick connect: .110" for coil/.250" for contacts	2.75	2.49	2.19
552462	P&B	PRD-7AG0-120	DPST-NO	120VAC @ 85mA	30A, 240VAC	290Ω	Screw: #8-32 for main; #6-32 for contacts	26.95	25.49	23.95
183791	Master	GH-2C-12D	DPDT	12VDC @ 170mA	30A, 240VAC	70Ω	Screw down terminals	12.95	11.49	10.95
551881	P&B	PRD-11AG0-120	DPDT	120VAC @ 85mA	30A, 240VAC	1200Ω	Screw: #8-32 for main; #6-32 for contacts	29.95	26.95	24.95



## General Purpose Blade and Octal Relays

- UL/CSA approved
- Industry standard termination for quick installation
- Wide range of coil voltages for industrial and commercial applications



★ Web Code: ACF



Part No.	*Mfr.	Product No.	Fig.	Contact Form	Coil Voltage	Contact Rating	Coil Resis. (Ω)	Coil Current (mA)	Mating Socket*		Pricing		
									Standard	DIN Rail	1	10	50
2096122	Magnecraft	781XAXM4L-12D	1	SPDT <sup>1</sup>	12VDC	20A @ 120VAC/28VDC	188	100	—	—	\$5.95	\$5.49	\$4.95
2119996	Omron	G2R-1-E-AS1	2	SPDT	24VDC	16A @ 250VAC; 16A @ 30VDC	1100	21.8	—	—	3.95	3.59	3.25
2096131	Magnecraft	781XAXM4L-24A	1	SPDT <sup>1</sup>	24VAC	20A @ 120VAC/28VDC	180	100	—	—	6.95	6.29	5.49
2093079	Omron	LY2F-DC12	1	DPDT	12VDC	10A @ 24VDC; 10A @ 110VAC	160	75	PT08	175531	5.95	5.39	4.79
139766	Rayex	MK2P-I	3	DPDT	12VDC	10A @ 28VDC; 10A @ 240VAC	120	10	141145	141145	7.95	7.29	6.59
282378	P&B	KRPA-11DG-12	4	DPDT <sup>2</sup>	12VDC	10A @ 240VAC	120	100	282132	282159	13.95	12.49	10.95
172719	ValuePro	LB2-12DS-R	1	DPDT	12VDC	12A @ 30VDC; 12A @ 240VAC	160	75	175531	282191	5.95	5.49	4.95
2095875	Magnecraft	782XBXM4L-12D	2	DPDT <sup>1</sup>	12VDC	12A @ 28VDC; 15A @ 120VAC	160	100	—	—	5.95	5.49	4.95
282255	P&B	K10P-11D15-12	5	DPDT	12VDC	15A @ 30VDC; 15A @ 120VAC	160	75	282191	282191	8.95	7.95	6.95
282386	P&B	KRPA-11DG-24	4	DPDT <sup>2</sup>	24VDC	10A @ 240VAC	472	51	282132	282159	12.95	11.95	10.95
2095867	Magnecraft	782XBXM4L-24D	2	DPDT <sup>1</sup>	24VDC	12A @ 28VDC; 15A @ 120VAC	650	100	—	—	5.95	5.49	4.95
175565	ValuePro	LB2-24DS-R	1	DPDT	24VDC	12A @ 30VDC; 12A @ 240VAC	650	37	175531	282191	5.95	5.49	4.95
282263	P&B	K10P-11D15-24	5	DPDT	24VDC	15A @ 30VDC; 15A @ 120VAC	650	37	282191	282191	8.95	7.95	6.95
175573	ValuePro	LB2-110AS	1	DPDT <sup>2</sup>	110VAC	12A @ 30VDC; 12A @ 240VAC	3,900	28	175531	282191	6.95	6.29	5.49
139740	Beta	BTAG-2C-J-CW-120VAC	3	DPDT	120VAC	10A @ 28VDC; 10A @ 240VAC	1,700	122	141145	141145	7.95	6.95	6.29
2095859	Magnecraft	782XBXM4L120A	2	DPDT <sup>1</sup>	120VAC	12A @ 28VDC; 15A @ 120VAC	4,430	100	—	—	10.95	9.95	8.95
282247	P&B	K10P-11A15-120	5	DPDT	120VAC	15A @ 30VDC; 15A @ 120VAC	3,900	11	282191	282191	8.95	7.95	7.29
301217	P&B	KRPA-14DN-24	4	3PDT	24VDC	10A @ 28VDC; 6A @ 250VAC	472	51	—	282167	9.95	8.95	7.95
282301	P&B	KHAU-17D11-12	6	4PDT	12VDC	3A @ 120VAC/28VDC (max)	160	100	496958	282183	7.59	6.95	6.39
291507	ValuePro	LB4H-120-R	1	4PDT	12VDC	5A @ 30VDC; 5A @ 240VAC	160	75	175557	175557	4.95	4.49	3.95
2095891	Magnecraft	7782XDX2M4L-12D	2	4PDT <sup>1</sup>	12VDC	8A @ 28VDC; 10A @ 120VAC	160	100	—	—	5.95	5.49	4.95
175602	ValuePro	LB4H-24DS-R	1	4PDT	24VDC	5A @ 30VDC; 5A @ 240VAC	650	37	175557	175557	4.95	4.49	3.95
282319	P&B	KHAU-17D12-24	6	4PDT	24VDC	5A @ 120VAC/28VDC (max)	650	52	496958	282183	7.95	6.95	6.29
282280	P&B	KHAU-17A11-24	6	4PDT	24VAC	3A @ 120VAC/28VDC (max)	160	52	496958	282183	7.95	7.19	6.49
2095921	Magnecraft	782XDX2M4L-24A	2	4PDT	24VAC	8A @ 28VDC; 10A @ 120VAC	180	100	—	—	6.95	6.49	5.95
175611	ValuePro	LB4H-110AS-R	1	4PDT <sup>2</sup>	110VAC	5A @ 30VDC; 5A @ 240VAC	3,900	28	175557	175557	5.49	4.95	4.49

\* For sockets see below    † PCB    1 = Push to test button, bi-polar LED status lamp, ID write-on label, flag indicator    2 = Silver-cadmium oxide, no lamp

## Blade and Octal Relay Sockets

★ Web Code: TEM

Part No.	Mfr.	Product No.	Relay Series	Pins	Contact Form	Type	1	10	50
141145	Beta	PF-083A	BTAT	8	DPDT	Combo <sup>†</sup>	\$3.95	\$3.69	\$3.39
175531	ValuePro	27E895	K10	8	DPDT	Combo <sup>†</sup>	3.95	3.69	3.39
282191	P&B	27E895	K10	8	DPDT	DIN Rail	6.95	6.39	5.75
282132	P&B	27E122	KRP/KRPA	8	DPDT	Standard	5.95	5.49	4.95
282167	P&B	27E892	KRP/KRPA	11	3PDT	DIN Rail	8.95	7.95	7.39
282175	P&B	27E121	KUP/KUEP/KUMP	11	3PDT	Din Rail	6.95	6.49	5.95
282124	P&B	27E121	KUP/KUEP/KUMP	11	3PDT	Standard	6.95	6.29	5.59
175557	ValuePro	27E894	KHUA	14	4PDT	DIN Rail	3.75	3.49	3.19
282183	P&B	27E894	KHA/KHS/PT	14	4PDT	DIN Rail	8.95	7.95	7.29
496958	P&B	27E166	KHA/KHUA	14	4PDT	Standard	11.95	10.95	9.95

† Combo: DIN rail or screw terminal



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## CNT Series Multifunction, Digital Time Delay Relay/Counter

- Maximum count: 1 to 999; 10 to 9,990; 100 to 99,900
- Maximum count rate: 100 counts per second
- Rating: 10A @ 30VDC or 277VAC resistive
- Voltage: 24-240VAC/VDC • DPDT
- 11-pin octal style plug



Power Requirement: 10W @ 240VAC/VDC; 5W @ 120VAC/VDC; 1W @ 24VAC/VDC

Part No.	Mfr. Part No.	Description	1	5
282239	CNT-35-96	Time delay relay/counter	\$139.95	\$125.95



## CdS Photocells

\* Web Code: CBG

- Generate variable signal based on detection of light levels
  - Cadmium Sulfide (CdS)
  - Operating temperature: -30°C to +70°C
  - Soldering: 230°C for 3 seconds
- Applications: Auto-focus lenses, exposure meters, contrast controls for TVs, dimmer or light switches, flame detectors, electronic toys, street lamp switches, optocouplers

	Part No.	Cross Ref. No.	Rating		Resistance (Ω)		Size (inches)		Lead Spacing (inches)	Lead Length (inches)	Pricing			
			Vp	mW	Dark	Light	A	B			1	10	100	500
			150	90	300k	4k	0.14	0.17			\$1.49	\$1.35	\$1.19	\$ .95
	120310	CDS0029004	150	90	2M	27k	0.14	0.17	0.10	1.44	1.49	1.35	1.19	.95
	120391	CDS0029203	150	90	10M	5k	0.14	0.17	0.10	1.02	1.49	1.35	1.19	.95
	120382	CDS0029008	150	90	20M	10k	0.14	0.17	0.10	1.02	1.49	1.35	1.19	.95
	120403	CDS0018001	150	100	200k	3k	0.17	0.20	0.13	1.02	.89	.79	.69	.59
	120420	CDS0018003	150	100	500k	16k	0.17	0.20	0.13	1.02	.99	.89	.79	.69
	120411	CDS0018006	150	100	5M	80k	0.17	0.20	0.13	1.02	.99	.89	.79	.69
	120301	CDS0037001	200	150	300k	3k	0.25	0.29	0.20	1.02	1.79	1.59	1.45	1.19
	120438	CDS0037004	200	150	500k	15k	0.25	0.29	0.20	1.02	1.49	1.35	1.19	.95
	120299	CDS0045001	350	400	300k	8k	0.37	0.43	0.30	1.44	1.79	1.59	1.45	1.19
	120454	CDS0045003	350	400	1M	12k	0.37	0.43	0.30	1.44	1.79	1.59	1.45	1.19

## NTC Thermistors

- Typical applications: temperature measurement/control/compensation; power supply fan control; PCB temperature monitoring
- Max. allowable power (@ 250°C): 0.55W
- Thermal dissipation factor: 6.5mW/°C (@ 250°C)
- Resistance value allowable difference: 10%



\* Web Code: RBG

Part No.	Product No.	Resistance (Ω @ 25°C)	B Constant (25/50°C >10%)	Temp. Coef. @ 25°C (%/°C)	Pricing		
					1	10	100
207521	NTC-101	100	3100	-3.5	\$ .49	\$ .39	\$ .35
207511	NTC-201	200	3100	-3.5	.49	.39	.35
207483	NTC-102	1k	3800	-4.3	.49	.39	.35
207466	NTC-302	3k	3900	-4.4	.49	.39	.35
207441	NTC-502	5k	3900	-4.4	.49	.39	.35
207037	NTC-103	10k	4100	-4.6	.49	.39	.35
207002	NTC-503	50k	4200	-4.7	.49	.39	.35
206991	NTC-104	100k	4400	-4.9	.49	.39	.35
206982	NTC-1204	200k	4500	-5.1	.49	.39	.35



## Digital Hall-Effect Magnetic Proximity Sensors

Flange Mount • Applications: door position sensing, flow sensing, pedal switch

- Capable of millions of operations
- Reverse battery protection to -24VDC
- Output saturation voltage max.: 400mV
- Meets IEC529 IPX5 for water protection
- Output wire: 3-wire sink
- Operating voltage range: 4.5-24VDC

513252

\* Web Code: CCC

Part No.	Mfr. Part No.	Supply Curr. Max. (mA)	Output Curr. Max. (mA)	Op. Point Gauss (max.)	Rel. Point Gauss (min.)	Function	Pricing		
							1	10	25
513252	MP101401	5.2	20	185 (south)	60 (south)	Unipolar switch	\$5.95	\$5.49	\$4.95
513261	MP102103	12	25	300 (north)	195 (north)	Switch	5.95	5.49	4.95



## Hall-Effect Magnetic Proximity Sensor

- With Snap-Fit Mount
- Operating voltage range: 4.75-24VDC
- No mechanical contacts to wear out
- South pole sensitive or bi-polar latch
- Output saturation voltage max.: 400mV
- Output: 3-wire sink
- Immune to dust, dirt, & moisture
- Digital output compatible with all logic families
- Operating temp. range: -40°C to 85°C
- Reverse polarity protection to -24V
- Solid state reliability

\* Web Code: CCC

Part No.	Mfr. Part No.	Supply Curr. Max. (mA)	Output Curr. Max. (mA)	Op. Point Gauss (max.)	Rel. Point Gauss (min.)	Wire	Pricing		
							1	5	25
513244	MP101301	4	25	300	60	24AWG x 1m	\$4.95	\$4.49	\$3.95



## Fujikura Pressure Sensor

- Pressure range: 0-2.5 kPa
- Operating voltage: 5V @ <10mA
- Max. excitation voltage: 8V
- 1/8" diameter tubing is applicable
- Pressure media: non-corrosive gas
- Pre-calibration of offset volt. & span
- Maximum load pressure: twice rated pressure
- On-chip amplification and temp. compensations
- Volt-level output
- Size: .55"L x .47"W x .20"H

\* Web Code: CBF

Part No.	Mfr. Part No.	1	5	25
196103	XFPN-025-KPGRNW1	\$12.95	\$11.49	\$9.95

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## Inductive Proximity Switch Sensors

### Cylindrical and Square Styles

- Operating voltage range: 10-30VDC
- Normally open output
- Current consumption: 10mA max.
- Sensing distance:  $\pm 10\%$  (tin)
- Pre-tinned pigtail
- Nominal operating voltage: 12VDC
- Switching frequency: 1.5kHz
- Sensing target: inductive type – magnetic metal
- Fast response
- Short-circuit protected
- LED status indicator
- 6' long cable

\* Web Code: MAX



Part No.	Mfr. Part No.	Output Circuit	Effec. Dist. (Iron)	Standard Target (Iron) (mm)	Dimensions (L x Dia.)	Mounting Hole (ins.)	Pricing		
							1	5	25
421147	CS12-02N-1	NPN	0-1.6mm	12 x 12 x 1	2.2" x 0.83"	0.67	\$15.95	\$14.95	\$13.95
421155	CS12-05N-1	NPN	0-0.4mm	12 x 12 x 1	2.4" x 0.88"	0.67	15.95	14.95	13.95
167020	TS12-02N-1	NPN	0-1.6mm	12 x 12 x 1	1.8" x 0.46"	0.46	19.95	18.95	16.95
248858	TS12-02P-1	PNP	0-1.6mm	12 x 12 x 1	1.8" x 0.46"	0.46	19.95	17.95	15.95
155547	S18-05N-1	NPN	0-4.0mm	18 x 18 x 1	1.4"Lx1.4"Wx0.7"H	0.112	11.95	10.95	9.95
421163	CS18-05N-1	NPN	0-0.4mm	18 x 18 x 1	2.1" x 1.10"	0.95	19.95	17.95	15.95
421171	CS18-08N-1	NPN	0-6.4mm	18 x 18 x 1	2.4" x 1.10"	0.95	19.95	17.95	15.95
421251	S25-07N-1	NPN	0-5.6mm	25 x 25 x 1	1.4" x 1.50"	0.98	9.95	8.95	7.95
421180	CS30-10N-1	NPN	0-12mm	30 x 30 x 1	2.3" x 1.40"	1.40	24.95	23.95	22.95
421227	TS30-10N-1	NPN	0-8.0mm	30 x 30 x 1	2.4" x 1.10"	1.10	24.95	23.95	22.95



## Magnetic Proximity Sensor Cylindrical Plastic Housing

- Omnipolar, magnetically activated switch
- Hermetically sealed
- Contact resistance: 0.2 $\Omega$  max.
- Resistant to dirt and moisture
- Can be approached by any magnet from any angle with either pole
- Zero power consumption
- Breakdown voltage: 200VDC min.
- Operating temp. range: -40°C to 105°C

Part No.	Mfr. Part No.	Contact Form	Power (W)	Switching Volt. Max. (VDC)	Switching Curr. Max. (A)	Op. Time Typical (ms)	Pricing		
							1	10	100
513308	MP201701	SPST NO	10	175	0.5	0.5	\$2.95	\$2.69	\$2.39



## Relative Humidity Sensor

- Linear volt. output vs %RH
- Voltage supply: 4 to 5.8VDC
- High accuracy
- Accuracy (best fit straight line):  $\pm 3.5\%$  RH
- Direct input to a controller or other device is made possible by this sensor's linear voltage output
- 3-pin SIP
- Operating temp.: -40°C to 85°C
- Current supply: 500 $\mu$ A max.
- Designed specifically for high volume OEM

\* Web Code: WEG

Part No.	Mfr. Part No.	Description	1	5	25
1860248	HIH-4000-003	0.10" lead pitch SIP w/ calibration & data printout	\$26.95	\$24.95	\$22.95

## Ultrasonic Sensor Sets

### Motion or Distance Sensing, Transmitter/Receiver Set

- Frequency: 40kHz  $\pm 1.0$ kHz
- Aluminum case
- Capacitance: 2000pF  $\pm 30\%$
- Transmitter: bandwidth 4.0kHz @ 112dB, sound pressure level 119dB @ 40 $\pm 1.0$ kHz
- Receiver: bandwidth 3.5kHz @ -71dB, min. sensitivity 65dB @ 40 $\pm 1.0$ kHz (R=3.9k $\Omega$ )

\* Web Code: CAU

- Capacitance: 2000pF  $\pm 20\%$
- Transmitter: bandwidth 5.0kHz @ 100dB, sound pressure level 112dB @ 40  $\pm 1.0$ kHz
- Receiver: bandwidth 5.0kHz @ -75dB, min. sensitivity 67dB @ 40  $\pm 1.0$ kHz (R=3.9k $\Omega$ )
- Capacitance: 1250pF  $\pm 20\%$
- Bandwidth: 4.0kHz @ -73dB
- Transmitter sensitivity: 41kHz @ 67dB
- Receiver sensitivity: 40kHz @ 67dB (R=3.9k $\Omega$ )

Part No.	Product No.	Case Size	Lead Length/Spacing	1	10	100
136654	40TR16F	0.47"H x 0.62"Dia.	0.39" .....	\$7.95	\$6.95	\$5.95
139492	40TR12B	0.30"H x 0.43"Dia.	0.28" .....	7.95	6.95	5.95
2120268	EFR40K2	0.47"H x 0.62"Dia.	0.35" .....	8.95	7.95	6.95



## Solid State Digital Position Sensor



- High output current capability -50mA absolute max.
- Oper. temp. range: -40°C to 150°C
- Supply volt.: 3.8VDC to 30VDC
- 3-pin SIP package
- Output type: sink
- Output volt./curr.: 40mV/20mA max.
- Supply current: 10mA max.

Part No.	Mfr. Part No.	Type	1	10	100
1915915	SS466A	Latching	\$1.09	\$0.99	\$0.85



## Hall Effect Sensor

- Supply voltage: 25V
- Supply current: 6mA (typ.)
- Output on current: 50mA
- Output off voltage: 25V
- Operating temp.: -40°C to 150°C

\* Web Code: HES

Part No.	Product No.	1	10	100
1871879	OH180U	\$2.75	\$2.49	\$1.95



## Gear Tooth Speed Sensor

### Commercial Grade Hall-Effect

- Operating voltage range: 4.5-24VDC
- Output type: sink
- Output current: 25mA max.
- Supply current: 6mA max.
- Barrel length: 1.0"
- Output voltage: 400mV max.
- Thread: 15/32" – 32
- Wire: 20 AWG x 1m
- Reverse battery protection from 24VDC
- Operating temperature range: -40°C to 125°C

Part No.	Mfr. Part No.	1	5	25
512401	GS100701	\$29.95	\$26.95	\$23.95

## Liquid Level Sensors

Combine the control box and sensor to activate a water valve. When the sensor is triggered by a tank in either full or empty condition, it will trigger an output status change.

\* Web Code: LLS

Part No.	Description	1	5	25
176250	24VDC	\$9.95	\$7.95	\$7.49
2119742	180VDC	16.95	15.95	15.49



## Membrane Sensors/Potentiometers



Membrane potentiometers are resistive elements or CARBON position feedback sensors with a sealed encasement and a non-conductive simple wiper assembly that connects the top and bottom circuit. By pressing the wiper down on the top circuit to close the connection with the bottom circuit, the linear sensor produces the desired electrical output. The membrane potentiometer can also be actuated through a manual control.

- Thinnest linear stroke sensor: <0.5mmH
- Sealed at IP65
- Simple application
- Ideal for low form factor applications
- Best priced linear stroke sensor on the market

Part No.	Mfr. Part No.	Description	1	10
2082636	SP7182	50mm	\$14.95	\$13.49
2082652	SP7183	100mm	14.95	12.95
2082679	SP7184	200mm	19.95	17.95
2082708	SP7186	500mm	29.95	26.95
2082716	SP7186	Rotary	16.95	15.49
2082724	WP7688	Wiper	3.49	3.19

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# Sensors, Earphones & Speakers

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## AVAGO Ambient Light Optical Sensor

A low-cost analog output ambient light photo sensor in a miniature chip LED lead-free surface mount package. It has a spectrally suited phototransistor, which peaks in human luminosity curve.

- Supply voltage: 2.4V to 5.5V
- Operating temperature: -40°C to 85°C
- Rise time: 0.95 ms
- Light current ratio: 1.2
- Fall time: 0.8 ms
- Dark current: 50mA

Part No.	Product No.	1	10	100
1548511	APDS-9002-021	\$ .95	\$ .85	\$ .65



## Force-Sensing Resistor

- Polymer thick film (PTF) optimized for human touch control of electronic devices
- >1MΩ, no force, 100kΩ to >100Ω under pressure
- 0.72" dia. circular pad, 0.5" Dia. sense area
- Sense applied force from 1oz. to 22 lbs.
- 1.2" flexible male leads (2), 0.1" spacing



Part No.	Mfr. Part No.	1	10
2128260	1696	\$7.95	\$7.25

## Bidirectional Flex Sensor



As the Bi Flex Bend Sensor is bent in either direction, the resistance gradually decreases. It is pressure sensitive and may also be used as a force or pressure sensor.

- Nominal resistance: 20kΩ – 50kΩ
- Dimensions: 4.5"L x .375"W x .038"T
- Temp. range: -45°F to 125°F

Part No.	Mfr. Part No.	1	5	25
2124867	FLX-01-M	\$9.95	\$8.95	\$7.95



## Dynamic & Ceramic Earphones

\* Web Code: EHS



Part No.	Mfr. Part No.	Fig.	Type	Impedance (Ω)	Plug	Cord Length	Color	Pricing		
								1	10	100
2098443	25DE024-ROX	1	Dynamic	8 ±20%	2.5mm	6'	Gray	\$ .99	\$ .95	\$ .89
2098427	25CR035-ROX	2	Ceramic	20M min.	3.5mm	3'	Tan	2.29	2.09	1.95
2098435	25CR060-ROX	3	Ceramic	20M min.	Tinned	3'	Tan	2.49	2.25	1.95

## Flex Sensor



- Max. resistance: 30kΩ to 40kΩ, proportional to the degree of flexing or bending • Length: 4.5"
- Applications: virtual reality data gloves, robotic, bio-metric, physics and engineering

Part No.	Nominal Res.	1	10
150551	10kΩ	\$12.95	\$11.49



## Magnetic Transducers (Speakers)

- Applied voltage: 1/2 duty, square wave

\* Web Code: JMT

Part No.	Manufacturer	Product No.	Fig.	Oper. Volt. (V/mA)	Volt. Range	Frequency (Hz)	Impedance (Ω)	Sound (dB)	Dimensions (H x Dia.)	Pricing		
										1	10	100
207918	ValuePro	DB105GFPN	1	1.5/30	1 – 2	2048	16	75	.22" x .47"	\$ .99	\$ .85	\$ .69
138740	ValuePro	DBX05-PN	2	5/40	3 – 8	2400	47	85	.35" x .46"	1.29	1.15	.99
138722	ValuePro	DB111A-PN	2	1.5/10	1 – 2	2048	50	80	.32" x .46"	1.29	1.15	.99
673871	ValuePro	PRT-1205	2	5/40	3 – 8	2400	470	90	.35" x .46"	.79	.65	.49
673774	ValuePro	SBT-1612	3	12/40	6 – 18	2048	200	85	.53" x .62"	.99	.85	.69



## Piezo Buzzers (Annunciators)

\* Web Code: JPB

Part No.	Manufacturer	Product No.	Fig.	Tone	Oper. Volt. (V/mA)	Volt. Range	Sound (dB)	Freq. (Hz)	Dimensions (H x Dia.)	Pricing		
										1	10	100
2081246	Shogyo	SEP-2202A5	1	Single	3/11	1.5 – 6	85	3000	16mm x 24mm	\$2.19	\$1.95	\$1.75
335557	ValuePro	MSR320	2	Single	3–20/3–16	3 – 20	90	3400	.39" x .91"	2.75	2.55	2.29
337535	ValuePro	SNP428	3	Single	4-28/3-16	4 – 28	76	2900	.85" x 1.64"	.99	.89	.79
1956696	Velleman	SV4/5-S	4	Single	5/25	3 – 6	87	3200	.30" x .47"	3.39	3.09	2.79
2081959	Floyd Bell	UC-05-515-P	5	Single	5/30	5 – 15	96	2100	1.08" x 1.40"	2.49	2.25	1.95
336989	ValuePro	SC616N	6	Single	6–16/6–22	6 – 16	95	2900	1.28" x 1.69"	1.95	1.75	1.55
1956741	Velleman	SVM06	7	Single	6/20	3 – 7	75	300-500	.91"L x .63"W x .59"H	1.95	1.75	1.55
337210	ValuePro	SC628D	6	Single	6-28/5-18	6 – 28	75	1900	1.25" x 1.69"	1.95	1.75	1.49
196357	Various	AL-175	8	Single	12/5.8	3 – 16	86	4000	.30" x .54"	1.75	1.49	1.25
138713	ValuePro	32S4120-PN	8	Single	12/7	3 – 16	80	4000	.30" x .54"	2.45	2.25	1.95
673900	ValuePro	SEP-1172	9	— †	12/7	3 – 28	81	3300	16mm x 31.4mm	.95	.85	.69
2099690	Kobitone	256-PB313	10	Continuous †	12/7	3 – 28	82	3600	.413" x 1.18"	1.49	1.25	1.09
2120452	ValuePro	DB-E238	1	Single	12/8	3 – 20	85	2900	16mm x 23.8mm	2.95	2.65	2.29
1956688	Velleman	SV4	11	Single	12/12	4 – 15	90	2800	.79" x 1.10"	1.49	1.25	1.19
1956750	Velleman	SVM12	7	Single	12/15	7 – 17	75	300-500	.91"L x .63"W x .59"H	1.95	1.75	1.65
335927	ValuePro	PK-20A38P	1	Single *	12/15	3 – 24	95	3800	18mm x 23mm	2.95	2.59	2.29
335505	ValuePro	MAS800	12	Single	12/50	9 – 12	103	2800	15.2mm x 26mm	1.95	1.75	1.49
32602	ValuePro	11S3240-R	13	Single	24/15	1 – 27	95	2900	1.4" x 1.7"	4.95	4.45	4.29
76021	ValuePro	7S3240-LA	13	Single	24/20	1.5 – 28	95	3200	1.0" x 1.1"	3.95	3.49	2.95
249498	ValuePro	1103120-LF-TA	13	Dual #	12/25	4 – 16	95	2900	34.5mm x 43.5mm	2.95	2.65	2.39
123538	ValuePro	11D3240	13	Dual #	24/20	4 – 28	80	2900	1.4" x 1.7"	4.19	3.79	3.39
335855	ValuePro	PK-12N40P	1	Pulse	12/10	3 – 15	83	4100	8mm x 14mm	2.95	2.59	2.29
2117430	DB Products	7P3120LF-LA	14	Pulse	12/10	3 – 15	90	3200	.98" x 1.10"	3.55	3.19	2.49

† Requires driver circuit \* Press fit: panel hole - 27mm (1.06") # Continuous or fast pulse



RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.



## Piezo Transducers (Speakers)

\* Web Code: JPT

Part No.	Manufacturer	Product No.	Fig.	Rated Voltage	Max. Current	Res Frequency	Sound (dB)	Dimensions (H x Dia.)	Pricing		
									1	10	100
1956784	Velleman	TV4	1	1.5Vp-p	1.5mA	4kHz	75	0.2mm x 50mm	\$2.95	\$2.59	\$2.35
1956776	Velleman	TV1	2	1.5Vp-p	1.5mA	4kHz	85	6mm x 30mm	1.95	1.75	1.59
2098540	Kobitone	PB102-ROX	3	3Vp-p	3mA	2kHz	70	3.2mm x 10mm	1.35	1.19	.99
2098523	Kobitone	PB140-ROX	4	5Vp-p	5mA	4kHz	80	6.8mm x 13.8mm	1.59	1.39	1.25
2098558	Kobitone	PB160-ROX	5	9Vp-p	7mA	4kHz	80	4mm x 16.5mm	1.49	1.35	1.19
2098531	Kobitone	PB220-ROX	6	10Vp-p	5mA	3.2kHz	70	26.5mm x 22mm	.75	.69	.59
2099702	Kobitone	256-PB315*	7	10Vp-p	7mA	4kHz	82	7.6mm x 17mm	.99	.89	.79
2099711	Kobitone	256-PB012*	2	10Vp-p	8mA	6kHz	88	4mm x 24mm	.99	.89	.79
2099729	Kobitone	256-PB015*	3	10Vp-p	9mA	5kHz	80	4mm x 16.5mm	.99	.89	.79
2098566	Kobitone	AZ-3025E-W-LF	2	10Vp-p	9mA	2.5kHz	86	9.5mm x 30mm	1.29	1.15	.99
336276	ValuePro	PT-1250W	3	12Vp-p	2mA	4kHz	75	4.3mm x 13.5mm	1.49	1.25	.95
336314	ValuePro	PT-2038FW	8	12Vp-p	3mA	4kHz	80	4.5mm x 24mm	1.49	1.25	.95
2077280	Panasonic	24C411	4	15Vp-p	2mA	4kHz	85	6mm x 24mm	1.49	1.25	.95

\* Requires external drive



## Mechanical/Electromechanical Buzzers

\* Web Code: MEB

Part No.	Manufacturer	Cross Ref. No.	Fig.	Oper. Volt. (V/mA)	Voltage Range	Frequency (Hz)	Sound (dB)	Dimensions	Pricing		
									1	10	100
335370	ValuePro	AST200	1	3/80	2 - 5	2731	85	8.7"sq. x 4.2"H	.99	.89	.75
140695	ValuePro	63S1120-LA	2	12/25	9 - 15	400	75	1.3"L x 0.7"W x 0.6"H	1.95	1.59	1.29
335353	ValuePro	AS1401	1	12/30	8 - 15	2400	90	.5"L x .5"W x .4"H	.89	.79	.65
335388	ValuePro	AST500	1	1.5	1.2 - 3	2400	85	.5"L x .5"W x .4"H	.85	.75	.59
76065	ValuePro	TDB05-PN	3	5/30	4 - 7	2300	85	.35"H x .46"Dia.	2.95	2.75	2.55
24872	ValuePro	63S109LA	2	9/30	6 - 12	400	75	1.3"L x 0.7"W x 0.6"H	1.49	1.35	1.19



## Piezo Sirens

\* Web Code: POS

Part No.	Manufacturer	Product No.	Fig.	Oper. Volt. (V/mA)	Voltage Range	Frequency (Hz)	Sound (dB)	Dimensions	Pricing		
									1	10	100
336225	ValuePro	PS-562	1	12/40	5 - 15	2500/3500	100	16mm x 42mm Dia.	\$4.95	\$4.49	\$3.95
207993	ValuePro	SL15R3120LA	2	12/250	6 - 16	3500	105	2.3"L x 1.8"W x 1.6"H	4.95	4.49	3.95
207889	ValuePro	18R3120	3	12/120	9 - 15	1500/3100	105	3.4"L x 2.2"W x 1.3"H	5.95	5.49	4.95
148152	Various	YC-321-1	4	12/300	2 - 12	3000	108	2.5"L x 2.8"Dia	7.95	6.95	5.95
2123733	Velleman	SV/PS5R	5	12/1300	6 - 12	900/4000	125	3.9"L x 4.3"Dia	12.95	11.95	10.95



## Flat Element, Square Speakers

- Excellent for alarms or other voice uses
- Stainless steel diaphragm

\* Web Code: XAE

Part No.	Product No.	Dimensions (Dia. " x D")	Input		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Element Size (Dia. " x H")	Pricing		
			Nom (W)	Max (W)					1	10	100
34025	GSP02-R	1.2 x 0.2	0.4	0.8	8	70	1300 - 8000	1.2 x 0.1	\$2.49	\$2.25	\$1.95
76030	AZ40S	1.6 x 0.2	0.4	0.8	8	70	600 - 6000	1.6 x 0.1	1.95	1.69	1.49
673766	AZ50S	1.9 x 0.2	0.4	0.8	8	70	500 - 6000	1.9 x 0.1	1.75	1.49	1.19



## Alnico Round, Square and Rectangular Speakers

\* Web Code: EAL

Part No.	Product No.	Fig.	Dimensions (Dia. " x D")	Input		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
				Nom (W)	Max (W)					1	10	100
2099614	31204	1	4.05 x 1.6	1.0	2.0	4	95	300 - 1200	0.9 x 0.6	\$2.49	\$2.25	\$1.95
135765	RA2425	2	2.2 x 0.8	0.25	0.5	8	87	400 - 4000	0.5 x 0.4	1.59	1.45	1.09
88411	A0200	2	2.0 x 0.8	0.2	0.4	8	87	430 - 4500	0.5 x 0.4	2.29	1.95	1.75
111588	B0102	1	1.7 x 0.6	0.1	0.3	8	83	500 - 5500	0.5 x 0.4	2.39	2.19	1.95
2115442	K7048202	3	1.6Lx2.8Wx0.9H	3.0	3.0	8	82	310 - 12000	0.87 x 0.29	3.49	3.09	2.75
135812	A1527C02	3	1.6Lx2.8Wx1.2H	2.0	5.0	8	82	450 - 20000	0.5 x 0.5	4.49	3.95	3.59
2077301	25S9024	2	2.25 x 0.77	0.2	0.2	8	90	450 - 4000	0.9 x 0.8	1.95	1.69	1.49
1954834	NMB-0030†	2	1.8 x 0.5	0.5	1.0	8	87	550 - 6000	0.9 x 0.2	2.49	2.25	1.95
2081676	FM009A*	1	4.0 x 1.6	15.0	30.0	8	102	900 - 6000	2.8 x 7.3	3.95	3.59	3.19
1950972	I-826-219**	4	8.2Lx2.2Wx2.0H	1.0	13.0	8	95	30 - 20000	1.5 x 2.8	4.95	4.49	3.95
2081220	TP-252††	2	2.6 x 0.875	0.5	1.0	16	89	400 - 4000	0.9 x 0.5	1.95	1.75	1.59
1954826	R11-49††	1	2.9 x 1.2	0.5	1.0	16	89	300 - 7500	0.9 x 0.4	1.95	1.75	1.59
1954842	609-0033††	3	3.6Lx2.0Wx1.5H	1.0	3.0	16	89	200 - 3000	0.9 x 0.7	2.49	2.19	1.95
1954851	R-A162††	1	4.0 x 1.5	1.0	2.0	16	89	200 - 3500	0.9 x 0.6	2.49	2.25	1.95
307820	UF1082	5	1.73 x 0.275	0.5	1.0	40	80	200 - 6000	0.8 x 0.1	2.49	2.19	1.95



\* Indoor/outdoor mylar diaphragm (closed back) \*\* Sony LCD plasma replacement speaker (actual size: 6"H x 2.15"W x 1.94"D) † Pair of wire leads (2) 11"/10" †† With wire leads

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## Micro Round and Rectangular Speakers

★ Web Code: **TBX**

Part No.	Product No.	Dimensions (Dia. " x D")	Input (W)		Impedance (Ω)	Magnet Size (Dia. " x H")	Output SPL (dB)	Frequency Range (Hz)	Pricing		
			Nom.	Max.					1	10	100
2099825	H73	0.80 x .115	0.1	0.2	8	0.47 x 0.03	78	800 – 7000	\$1.59	\$1.45	\$1.09
2099606	SP801W	1.05 x 0.35	0.1	0.2	8	0.67 x 0.17	78	320 – 7500	1.75	1.49	1.25
2095242	35CS088-M75NA	1.4Lx1.3Wx0.2H	0.2	0.3	8	0.44 x 0.10	80	550 – 6700	1.95	1.75	1.49
2081191	5000375-00	2.00 x 0.34	0.2	1.5	8	0.63 x 1.14	85	600 – 3000	1.49	1.25	.95
1956590	TR-050F-R	2.00 x 0.70	0.5	1.0	16	1.25 x 0.34	85	500 – 5000	1.49	1.29	1.09
138861	GCO201	0.80 x 0.169	0.1	0.2	32	0.26 x 0.06	78	800 – 7000	1.25	.95	.75
2099593	SP452W	2.25 x 0.5	0.1	0.2	45	0.68 x 0.17	86	150 – 9000	1.49	1.25	1.19
355514	YGD40A-50	1.57 x 0.40	0.5	1.0	50	0.72 x 0.43	89	600 – 5200	1.49	1.35	1.25



## 30mm PCB Mountable Speakers

- Ideal for PC board mounting
- Power (nominal/max.): 0.15W/0.2W
- Mylar diaphragm
- Solder leads



Part No.	Size (H x Dia.)	Impedance	Pin Spacing	Freq. Range	SPL (dB)	1	10	100
2095234	0.57" x 1.24	8Ω	0.69"	700-4kHz	82	\$1.75	\$1.49	\$1.25
135722	0.50" x 1.17"	8Ω	0.59"	700-5kHz	82	1.75	1.49	.99
2099817	0.47" x 1.16"	100Ω	0.58"	1.1kHz ±20%	95	1.49	1.25	1.09

## Rare Earth Magnet Speaker

- Input watts: 3W nominal, 4W maximum
- Impedance: 8Ω (±15%) @ 850Hz
- Output SPL (dB): 85dB (±3dB)
- Distortion: 5% max. @ 1000Hz
- Frequency range: 100Hz to 20kHz
- Weight: 0.96 oz.

**NEW**  
MARKED IN PINK



Part No.	Product No.	Size	1	10	100
2126061	40RE08-1	1.6"Dia. x 1.7"D	\$3.95	\$3.59	\$2.95

## Round Ferrite Speakers

★ Web Code: **TAT**

Part No.	Manufacturer	Product No.	Dimensions (Dia. " x D")	Input (W)		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
				Nom.	Max.					1	10	100
320135	Various	C35128A†	2.0 x 0.7	0.2	0.4	8	83	420 – 5000	1.3 x 0.4	\$1.49	\$1.25	\$1.09
135589	Various	FE200	2.0 x 0.7	0.2	0.4	8	83	420 – 5000	1.3 x 0.4	1.49	1.25	1.09
320362	ValuePro	TR-057F-R	2.0 x 0.7	0.25	0.5	8	86	900 – 9000	1.3 x 2.5	1.49	1.25	1.09
10840	ValuePro	FE201	2.2 x 0.7	0.2	0.4	8	88	400 – 4500	1.3 x 0.4	1.95	1.69	1.49
2081254	Star	FR-05202-01	2.0 x 1.15	3.0	5.0	8	85	100 – 5000	1.6 x 0.5	2.49	2.25	1.95
1954800	Regal	R-F163†	3.0 x 1.3	1.5	3.0	16	89	200 – 3000	1.8 x 0.4	1.95	1.69	1.49
2099585	Various	RF-608E	2.2 x 0.7	1.0	2.0	48	86	300 – 3000	1.3 x 0.4	1.95	1.69	1.49
2081844	Various	20-220-NSR†	2.0 x 0.7	0.1	0.2	50	86	300 – 3000	1.3 x 0.4	1.95	1.69	1.49

† With lead wires

- Pre-tinned speaker lugs
- Anodized metal surfaces
- Braided copper voice coil leads
- Paper diaphragm
- Large magnet

For speaker wire, see page 56



## Square Ferrite Speakers

★ Web Code: **EDT**

Part No.	Manufacturer	Product No.	Dimensions (Dia. " x D")	Input (W)		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
				Nom.	Max.					1	10	100
99996	ValuePro	FEB204	2.6 x 0.9	3.0	4.0	4	95	300 – 14000	1.8 x 0.5	\$2.69	\$2.39	\$2.05
135694	ValuePro	FEB200	2.0 x 0.7	0.2	0.3	8	82	500 – 6000	1.3 x 0.5	1.95	1.69	1.49
2099833	Various	964000-002	2.6 x 0.8	0.2	0.3	8	97	500 – 6000	1.3 x 0.4	1.95	1.69	1.49
1954818	Various	TQ-100F-R	4.0 x 1.4	6.0	8.0	8	97	800 – 10000	1.8 x 0.5	2.95	2.59	2.39
31959	ValuePro	FEB216	2.6 x 0.8	0.2	0.4	16	85	330 – 8000	1.3 x 0.5	2.69	2.39	2.15
2099577	Various	SP83W	3.0 x 1.5	2.0	3.0	8	90	300 – 10000	1.8 x 0.6	2.95	2.59	1.95

- Pre-tinned speaker lugs
- Anodized metal surfaces
- Braided copper voice coil leads
- Paper diaphragm
- Large magnet

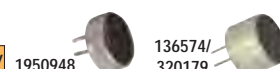


## Omni-Directional Electret Condenser Microphone Cartridges

Applications: Tape recorders, intercoms, hearing aids, telephone and answering devices, sonic controlled toys and sensors

★ Web Code: **QBW**

Part No.	Manufacturer	Product No.	Sensitivity	Frequency (Hz)	Max. Op. Volt.	Stand Op. Volt.	Max. Current	Sensitivity Reduction	S/N Ratio	Impedance	Terminals	Size (H x Dia.)	Pricing			
													1	10	100	1000
1950948	ValuePro	AMF-097A40-NB1-LF	-60 ±3dB	50-16,000	10VDC	3.0VDC	0.5mA	-3dB @ 3V	>58dB	>2.2kΩ	PC pin leads	.27" x .39"	\$ .89	\$ .79	\$ .69	\$ .59
2126141	ValuePro	EC928P-602	-40±2dB	20-12,000	10VDC	4.5VDC	0.5mA	-3dB @ 1.5V	>36dB	>2.2kΩ	PC pin leads	.26" x .38"	.95	.89	.75	.65
136574	ValuePro	WM-60PC	-54 ±2dB	20-12,000	12VDC	4.5VDC	0.5mA	-3dB @ 3V	>40dB	>2.2kΩ	PC pin leads	.30" x .38"	.95	.89	.75	.59
320179	Various	EM-99	-64 ±2dB	20-12,000	12VDC	4.5VDC	0.5mA	-3dB @ 3V	>40dB	>2.2kΩ	PC pin leads	.27" x .39"	.85	.75	.69	.65



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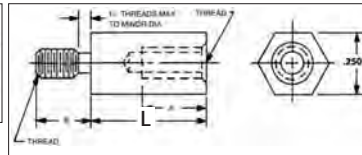
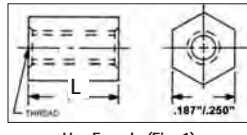
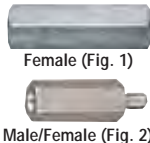
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## .187"/.250" Aluminum, Brass & Steel Hex Threaded Standoffs

★ Web Code: TBQ

- Finish:
- 1 Brass (plain)
- 2 Aluminum
- 3 iridite (clear)
- 4 Brass bright tin plate
- 5 Stainless steel
- 6 Zinc clear chromate
- 6 Chrome



### Hex Female Standoffs

\* Order in multiples of 10

#### .187" Hex 4-40 Thread (Fig. 1)

Part No.	*Mfr.	Product No.	Length of L	Pricing		
				1	10	100
175636	◆	2052-440S0 <sup>6</sup>	.187"	\$ .25	\$ .22	\$ .15
133613	RAF	2053-440AL7 <sup>2</sup>	.250"	.29	.25	.19
102796	JVP	14-552 <sup>3</sup>	.250"	.35	.29	.25
133640	RAF	2057-440AL7 <sup>2</sup>	.500"	.39	.35	.25
139792	RAF	2058-440AL7 <sup>2</sup>	.563"	.29	.25	.19
133648	RAF	2059-440AL7 <sup>2</sup>	.625"	.29	.25	.19
133656	RAF	2061-440AL7 <sup>2</sup>	.750"	.39	.35	.29
139185	RAF	2065-440AL7 <sup>2</sup>	1.00"	.55	.49	.35

#### .250" Hex 6-32 Thread (Fig. 1)

Part No.	*Mfr.	Product No.	Length of L	Pricing		
				1	10	100
77535	RAF	2100-632AL7 <sup>2</sup>	.250"	\$ .29	\$ .25	\$ .19
133591	RAF	2102-632A7 <sup>2</sup>	.375"	.29	.25	.19
1582400	◆	6-32BHEXF <sup>1</sup>	.375"	*	.08	.07
77543	RAF	2104-632AL7 <sup>2</sup>	.500"	.29	.25	.19
77552	RAF	2106-632AL7 <sup>2</sup>	.625"	.45	.39	.25
77570	RAF	2108-632AL7 <sup>2</sup>	.750"	.45	.39	.25
77578	RAF	2112-632AL7 <sup>2</sup>	1.00"	.49	.45	.29
143407	RAF	2120-632A7 <sup>2</sup>	1.50"	.59	.55	.39
393811	RAF	2120-632B12 <sup>5</sup>	1.50"	.75	.69	.65
143441	RAF	2124-632AL7 <sup>2</sup>	1.75"	.79	.69	.55
387495	RAF	2140-632A7 <sup>2</sup>	4.00"	1.95	1.75	1.49
387508	RAF	2144-632A7 <sup>2</sup>	5.00"	1.95	1.75	1.49
387516	RAF	2148-632A7 <sup>2</sup>	6.00"	2.95	2.49	2.25
387524	RAF	2152-632A7 <sup>2</sup>	7.00"	2.95	2.49	2.25
387532	RAF	2156-632A7 <sup>2</sup>	8.00"	2.95	2.49	2.25
387541	RAF	2160-632A7 <sup>2</sup>	9.00"	2.95	2.49	2.25
387559	RAF	2164-632A7 <sup>2</sup>	10.0"	2.95	2.49	2.25

#### .250" Hex 4-40 Thread (Fig. 1)

Part No.	*Mfr.	Product No.	Length of L	Pricing		
				1	10	100
139193	RAF	2100-440A7 <sup>2</sup>	.250"	\$ .25	\$ .22	\$ .15
77501	RAF	2102-440AL7 <sup>2</sup>	.375"	.29	.25	.19
393693	RAF	2102-440B12 <sup>5</sup>	.375"	.59	.55	.35
134763	RAF	2103-440AL7 <sup>2</sup>	.437"	.39	.35	.19
108371	RAF	2104-440AL7 <sup>2</sup>	.500"	.45	.39	.25
393713	RAF	2104-440B1 <sup>5</sup>	.500"	.35	.29	.25
77519	RAF	2106-440AL7 <sup>2</sup>	.625"	.49	.45	.25
393721	RAF	2106-440B12 <sup>5</sup>	.625"	.35	.29	.25
133605	RAF	2108-440AL7 <sup>2</sup>	.750"	.45	.39	.25
393731	RAF	2108-440B12 <sup>5</sup>	.750"	.49	.45	.39
139205	RAF	2112-440A7 <sup>2</sup>	1.00"	.29	.25	.19
393749	RAF	2112-440B12 <sup>5</sup>	1.00"	.49	.45	.39
387401	RAF	2148-440A7 <sup>2</sup>	6.00"	1.95	1.75	1.49
387428	RAF	2152-440A7 <sup>2</sup>	7.00"	2.95	2.49	2.25
387444	RAF	2156-440A7 <sup>2</sup>	8.00"	2.95	2.49	2.25
387452	RAF	2160-440A7 <sup>2</sup>	9.00"	2.95	2.49	2.25
387461	RAF	2164-440-A7 <sup>2</sup>	10.0"	2.95	2.49	2.25

#### .250" Hex 10-32 Thread (Fig. 1)

Part No.	*Mfr.	Mfr Part No.	Length of L	Pricing		
				1	10	100
387735	RAF	2100-1032A7 <sup>2</sup>	.250"	\$ .95	\$ .85	\$ .75
387840	RAF	2144-1032A7 <sup>2</sup>	5.00"	1.95	1.75	1.49
387858	RAF	2148-1032A7 <sup>2</sup>	6.00"	2.49	2.25	1.95
387866	RAF	2152-1032A7 <sup>2</sup>	7.00"	2.49	2.25	1.95
387874	RAF	2156-1032A7 <sup>2</sup>	8.00"	2.95	2.49	2.25
387882	RAF	2160-1032A7 <sup>2</sup>	9.00"	2.95	2.49	2.25
387891	RAF	2164-1032A7 <sup>2</sup>	10.0"	2.95	2.49	2.25

### Round Ceramic Donut Magnets

- For science, fridge or projects
- Center hole: .375" Dia.
- 109031: 1.23"Dia. x .19"Thick
- 2111425: 3/8"Dia x 1/8"Thick
- NiPlated matte finish, NdFeB grade



Part No.	Product No.	1	10	100
109031	CDM	\$ .49	\$ .39	\$ .25
2111425	N40	1.25	1.19	1.09

\* RAF = RAF Electronic Hardware | JVP = Jameco ValuePro | KEY = Keystone | ◆ Manufacturer Varies

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

### Hex Male/Female Standoffs

#### .187" Hex 4-40 (Fig. 2) (A: .250"; B: .187")

Part No.	*Mfr.	Mfr Part No.	Length of L	Pricing		
				1	10	100
393458	RAF	4501-440AL7 <sup>2</sup>	.250"	\$ .45	\$ .39	\$ .35
393466	RAF	4503-440AL7 <sup>2</sup>	.375"	.35	.29	.25
393474	RAF	4505-440AL7 <sup>2</sup>	.500"	.45	.39	.35
2125202	RAF	4508-440BR7 <sup>3</sup>	.709"	.35	.25	.19
393491	RAF	4509-440AL7 <sup>2</sup>	.750"	.39	.35	.29
393503	RAF	4513-440AL7 <sup>2</sup>	1.00"	.49	.45	.35

#### .187" Hex 6-32 Thread (Fig. 2) (A: .375"; B: .250")

Part No.	*Mfr.	Mfr Part No.	Length of L	Pricing		
				1	10	100
393546	RAF	4503-632AL7 <sup>2</sup>	.375"	\$ .35	\$ .29	\$ .25
393554	RAF	4505-632AL7 <sup>2</sup>	.500"	.39	.35	.29
393571	RAF	4509-632AL7 <sup>2</sup>	.750"	.35	.29	.25
393588	RAF	4513-632AL7 <sup>2</sup>	1.00"	.45	.39	.29

#### .250" Hex 4-40 Thread (Fig. 2) (A: .250"; B: .187")

Part No.	*Mfr.	Product No.	Length of L	Pricing		
				1	10	100
77586	RAF	4530-440AL7 <sup>2</sup>	.250"	\$ .35	\$ .29	\$ .25
1582330	KEY	8713 <sup>5</sup>	.250"	.55	.49	.35
77594	RAF	4532-440AL7 <sup>2</sup>	.375"	.45	.35	.19
393845	RAF	4532-440-B-12L <sup>5</sup>	.375"	.35	.29	.25
111756	RAF	4534-440AL7 <sup>2</sup>	.500"	.45	.39	.29
139214	RAF	4536-440AL7 <sup>2</sup>	.625"	.45	.39	.29
139222	RAF	4538-440AL7 <sup>2</sup>	.750"	.49	.45	.35
139231	RAF	4542-440AL7 <sup>2</sup>	1.00"	.55	.49	.45
128566	RAF	4546-440AL7 <sup>2</sup>	1.25"	.49	.45	.39
393895	RAF	4546-440B12 <sup>5</sup>	1.25"	.75	.69	.59
166546	RAF	4550-440AL7 <sup>2</sup>	1.50"	.75	.69	.59
393909	RAF	4550-440B12 <sup>5</sup>	1.50"	.55	.49	.39

#### .250" Hex 6-32 Thread (Fig. 2) (A: .375"; B: .250")

Part No.	*Mfr.	Product No.	Length of L	Pricing		
				1	10	100
133542	RAF	4530-632AL7 <sup>2</sup>	.250"	\$ .45	\$ .39	\$ .25
133568	RAF	4532-632AL7 <sup>2</sup>	.375"	.45	.39	.25
77607	RAF	4534-632AL7 <sup>2</sup>	.500"	.45	.39	.25
77623	RAF	4538-632AL7 <sup>2</sup>	.750"	.55	.49	.39
77650	RAF	4542-632AL7 <sup>2</sup>	1.00"	.65	.59	.49
393959	RAF	4542-632B12 <sup>5</sup>	1.00"	.55	.49	.45
206623	◆	SP14SS125 <sup>4</sup>	1.25"	1.39	1.25	.95
393968	RAF	4546-632B12 <sup>5</sup>	1.25"	.85	.75	.65



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### .250" Round Threaded Standoffs

- Aluminum or Brass † Finish: Iridite (clear);
- 1 per MIL-C-5541-D; 2 brass (plain)

★ Web Code: RBQ



#### .250" Round 4-40 Thread Female

Order in multiples of 10

Part No.	*Mfr.	Metal†	Length	Pricing	
				10	100
1945102	◆	Alum <sup>1</sup>	.250"	\$ .10	\$ .09
1944564	◆	Alum <sup>1</sup>	.500"	.10	.09
1944476	◆	Brass <sup>2</sup>	.500"	.08	.07
1944484	◆	Brass <sup>2</sup>	.750"	.08	.07
1944599	◆	Alum <sup>1</sup>	1.00"	.10	.09

#### .250" Round 6-32 Thread Female

Order in multiples of 10

Part No.	*Mfr.	Metal†	Length	Pricing	
				10	100
1944610	◆	Alum <sup>1</sup>	.250"	\$ .15	\$ .12
1944492	◆	Brass <sup>2</sup>	.250"	.08	.07
1944628	◆	Alum <sup>1</sup>	.375"	.15	.12
1945145	◆	Alum <sup>1</sup>	.500"	.12	.10
1944644	◆	Alum <sup>1</sup>	.750"	.15	.13
1944652	◆	Alum <sup>1</sup>	1.00"	.08	.07





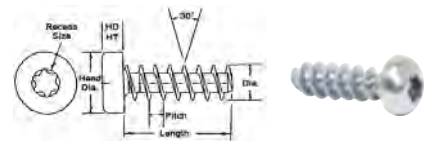
## Micro-Miniature Thread Rolling Screws

These Pan Head self-tapping screws have six-lobed star recess drives. Their low-torque installation is chip-free and they resist loosening from vibration. There are three types:

- Tapite (TT) has a tri-lobular body, which will produce machine screw threads when driven into soft metals
- PLAS has a tri-lobular body, which generates coarser threads when driven into thermoplastics
- TRS has a full-round body with a sharper thread profile that drives into thermoplastics with low torque, produces less heat, generates high clamp energy, and doesn't crack or distort thin-walled materials

**Additional features:** • Six lobed drive for maximum control and handling

- Hardened steel with RoHS compliant zinc and chromate finish
- Sold in bags of 10



Qty. (bag of 10)	1	10	100
Pricing	\$3.95	\$3.69	\$3.45

\*Web Code: PHS

Part No.	Manufacturer No.	Screw Type	Screw Dia.	Torx Recess	Hole Dia. (mm)	Screw Length (mm)	Thread Pitch	Head Dia. (mm)		Head Height (mm)	
								Min.	Max.	Min.	Max.
2124672	M1.6X6TX4TT	Tapite	M1.6	T4	1.45	6	0.35	2.6	3.4	0.9	1.1
2124681	M2X5TX5TT	Tapite	M2	T5	1.83	5	0.91	3.1	3.5	1.2	1.4
2124710	M2.5X6TX8TT	Tapite	M2.5	T8	2.29	6	0.45	4.1	4.5	1.6	1.8
2124736	M1.4X6TX3PLAS	Plastite	M1.4	T3	1.26	6	0.45	2.2	2.6	0.8	1.0
2124761	M1.6X6TX4PLAS	Plastite	M1.6	T4	1.45	6	0.79	2.6	3.4	0.9	1.1
2124787	M2X5TX6PLAS	Plastite	M2	T5	1.65	5	0.91	3.1	3.5	1.2	1.4
2124795	M2.5X5TX8PLAS	Plastite	M2.5	T8	1.93	5	1.06	4.1	4.5	1.6	1.8
2124824	TRS2	TRS	M2.2	T6	1.73	8	0.98	3.7	4.0	1.4	1.6
2124859	TRS8	TRS	M3.5	T10	2.76	6	1.57	5.6	5.9	2.2	2.5

\*Web Code: BAG

## SAE Hardware

- Zinc-plated steel

## Slotted Pan Head Machine Screws

Part No.	Screw Size	Thread	Length (in.)	100 piece multiples	
				100	1000
38173	2-56	Std	.250	.05	.04
2094320	2-56	Std	.375	.05	.04
2094338	2-56	Std	.500	.05	.04
40952	4-40	Std	.250	.04	.03
40970	4-40	Std	.375	.04	.03
106810	4-40	Std	.500	.04	.03
106543	6-32	Std	.250	.04	.03
42446	6-32	Std	.375	.04	.03
42438	6-32	Std	.500	.04	.03
2094346	8-32	Std	.250	.06	.05
106817	8-32	Std	.375	.06	.05
106797	8-32	Std	.500	.06	.05

## Phillips Pan Head Machine Screws

Part No.	Screw Size	Thread	Length (in.)	100 piece multiples	
				100	1000
2094354	2-56	Std	.250	.05	.04
2094371	2-56	Std	.500	.05	.04
2094389	4-40	Std	.250	.04	.03
2094397	4-40	Std	.375	.04	.03
2094400	4-40	Std	.500	.04	.03
2094418	6-32	Std	.250	.04	.03
2094426	6-32	Std	.375	.04	.03
2094434	6-32	Std	.500	.04	.03
2094442	8-32	Std	.250	.06	.05
2094451	8-32	Std	.375	.06	.05
2094469	8-32	Std	.500	.06	.05

## Phillips Round Head Machine Screws

Part No.	Screw Size	Thread	Length (in.)	100 piece multiples	
				100	1000
2095111	6-32	Std.	.197	.04	.03
2082978	6-32	Std	.250	.04	.03

## Phillips Button Head Sheet Metal Screws

Part No.	Screw Size	Thread	Length (in.)	100 piece multiples	
				100	1000
2100072	8	Std.	.375	.05	.04
2100101	6	Std	.375	.05	.04

## Hex Nuts

Part No.	Screw Size	Thread	Diameter (in.)	100 piece multiples	
				100	1000
38165	2-56	Std	.183	.03	.02
40943	4-40	Std	.243	.03	.02
42420	6-32	Std	.306	.03	.02
51553	8-32	Std	.344	.03	.02

## Flat Washers

Part No.	Screw Size	Diameter (in.)	100 piece multiples	
			100	1000
2094725	2	.188	.03	.02
211131	4	.237	.03	.02
106826	4	.281	.04	.03
106833	6	.373	.04	.03
106842	8	.375	.05	.04

## Split Lock Washers

Part No.	Screw Size	Diameter (in.)	100 piece multiples	
			100	1000
106789	2	.172	.03	.02
40977	4	.242	.03	.02
42463	6	.240	.03	.02
51609	8	.279	.03	.02

## Internal Tooth Lock Washers

Part Number	Screw Size	Length (in.)	100 piece multiples	
			100	1000
2094733	2	.200	.05	.04
106850	4	.258	.05	.04
106868	6	.277	.05	.04
106877	8	.323	.05	.04

## Fender Washers

Part No.	Screw Size	Diameter (in.)	100 piece multiples	
			100	1000
401146	#10	1	.08	.07
401154	1/4"	1.25	.08	.07
401162	5/16"	1.5	.08	.07
401171	3/8"	1.5	.08	.07
401189	1/2"	2	.15	.12

## Instrumentation Handle

- Oval aluminum
- 10-32 thread-on 3.00" centers (2)
- Size: 3.3"L x 1.3"H x 0.30"D

Part No.	Mfr.	Product No.	1	10	100
216821	Various	8358-1032-B-5	\$3.95	\$3.75	\$3.49

## 2" General Duty Rigid Caster

- Polyolefin wheels give mobility to heavy loads on smooth surfaces
- Mounting bracket 3"L x 1-3/4"W
- Caster swivels 360°
- Impervious to water and resists chemicals
- Long wearing, light weight and non-marking
- 125 lb. load rating per caster

Part No.	Description	1	10	25
2082169	2-1/2" ground clearance	\$1.95	\$1.75	\$1.49

## 4-40 Mounting Angle Brackets

- Material: zinc plated steel
- 1581530: Both holes 4-40 threaded
- 2082581: One hole 4-40 threaded

Part No.	Size (L" x W" x H")	1	10	100
1581530	.375 x .25 x .353	.29	.25	.19
2082581	.548 x .50 x .506	.35	.29	.25

## PCB &amp; Fan Mounting Hardware

- Snap "on"
- Nylon

\*Web Code: PSF

Part No.	Product No.	Size (in.)	Holes	10	100
28337	CS1016	1.2L x 0.6W	.2" .....	\$1.15	\$1.12
129252	PCST2	0.9L x 0.4Dia.	.27/3" .....	.19	.15
148056	PCST3	0.8L x 0.5W	.17/2" .....	.12	.10
156831	CS-10	0.68L x 0.32Dia.	.14" .....	.19	.15
2100064	SR1036*	1.5L x .38Lip	.167" .....	.15	.12

\* Rubber Order in multiples of 10

**We Ship the Same Day!**

**Just place your order by 6PM EST.**

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.



## Thumbscrews

Aluminum

\*Web Code: VBZ

Fig. 1  
393976



Fig. 2  
394071



Part No.	Mfr. Part No.	Fig.	Thread	Thread Length	Length	1	10	100
393976	7100-A	1	4-40	5/16"	5/8"	\$.95	\$.75	\$.65
394063	7125-A	2	6-32	3/8"	9/16"	.95	.75	.65
394071	7128-A	2	8-32	3/8"	9/16"	.75	.69	.59

All Jameco purchases are guaranteed for a full 90 days and even longer for Jameco House Brands.

## Spacers & Electronic Hardware Kit

Includes 2700 pcs. (27 types) Spacers, Nuts, Flat, Tooth & Lock Washers and Slotted Pan Head Screws **SAVE \$59**



100 each Spacers	100 each Hex nuts	100 each Flat	100 each Int. tooth	100 each Split lock	100 each PH machine screws
—	2-56	#2	#2	#2	2-56 x 1/4, 1/2
4-40	4-40	#4	#4	#4	4-40 x 1/4, 1/2
6-32	6-32	#6	#6	#6	6-32 x 1/4, 1/2
8-32	8-32	#8	#8	#8	8-32 x 1/4, 1/2
Part No.	Description	Wt. (lbs.)	1 5		
108433	2700 pcs. hardware kit	7.5	\$99.95	\$89.95	

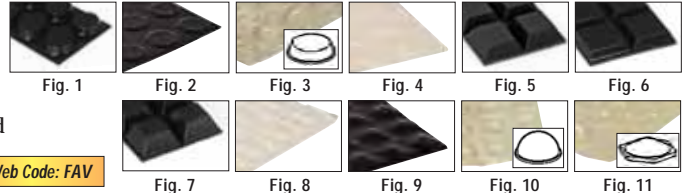
## Miscellaneous Hardware

JAMECO ValuePro

These durable, pressure sensitive, adhesive-backed urethane bumpers adhere quickly and resist marring and staining on surfaces and give excellent skid and abrasion resistance.

\*Web Code: FAV

## Adhesive Rubber Feet



Part No.	Cross Ref. No.	Type	Fig.	Pack	W" x H"	1	10	50
2119718	BS-34-100BL	Black cylindrical	1	100	.38 x .13	\$4.95	\$4.75	\$4.49
2118897	BS-5-100BL	Black cylindrical	2	100	.50 x .06	5.49	5.29	4.95
142658	SJ5012BLKC	Black cylindrical	1	100	.50 x .14	6.95	5.95	5.49
2118862	BS-34-100CL	Clear cylindrical	3	100	.38 x .13	4.95	4.75	4.49
2118900	BS-5-100CL	Clear cylindrical	4	100	.50 x .06	5.49	5.29	4.95
651911	SJ5312CLR56	Clear cylindrical	3	56	.50 x .14	4.95	4.49	3.95
651920	SJ5412WHT56	White cylindrical	3	56	.50 x .14	6.95	6.25	5.49
126981	SJ5023BLK4	Black square tapered	5	4	.81 x .30	.95	.85	.75
142666	SJ5023BLKC	Black square tapered	5	100	.81 x .30	14.95	13.49	12.49
142771	SJ5008BLKC	Black square tapered	6	100	.50 x .12	7.95	5.95	4.95
142682	SJ5018BLKC	Black square tapered	7	100	.50 x .23	10.95	8.95	7.95
2118889	BS-32-100CL	Clear square tapered	8	100	.50 x .12	5.95	5.75	5.49
2118871	BS-7-100BL	Black hemisphere	9	100	.34 x .09	4.49	4.25	3.95
651903	SJ5302CLR96	Clear hemisphere	10	96	.31 x .09	7.95	7.09	5.85
651938	SJ6553CLR132	Clear hexagonal cone	11	132	.43 x .12	6.95	6.25	5.49
2081385	GB201	100 assorted sizes & types of bumpers & rubber feet				8.95	7.95	6.95



Part No.	Description	1	10	100
2100208	Terminal lug, #4 stud washer, 0.470"L (tin)	* \$12	\$10	
2099745	Terminal lug, #4 stud washer, 0.465"L	* .15	.12	
1581695	Offset leg, 6-32 3/8" screw terminal; 0.55"L	* .15	.12	
2099753	Terminal lug, #8 stud washer, 0.605"L	* .19	.15	
1581572	Terminal lug, #6 stud Lockwasher, 0.865"L	.25	.22	.15
2131506	Compression spring 0.127"OD x 0.78"L black	* .15	.10	

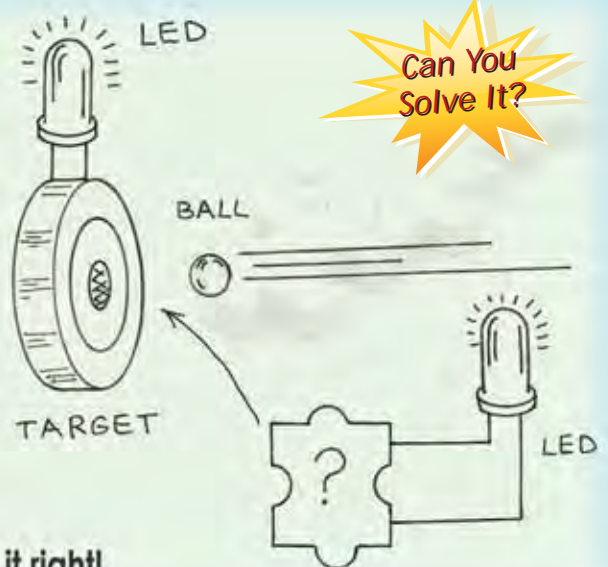
\*RAF Electronic Hardware Online — Web Code RAF

# Jameco Puzzler 9

by Forrest M. Mims III

A fictional engineer we'll call John Archer spent a decade designing hardware and writing code for microprocessor-controlled games manufactured by a toy company. Citing a market for "back to basics" toys, the company president said he wanted to introduce a new line of simple games that would flash a red LED when a target was struck by a rubber band, rubber ball or other reasonably safe projectile. The catch: The game should not use a battery or external source of power. How did Archer solve this very different assignment?

Go to: [www.Jameco.com/clue9](http://www.Jameco.com/clue9) to see if you got it right!



\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## 1.5VDC – 24VDC Motors

★ Web Code: FBN



Part No.	Manufacturer	Product No.	Fig.	Nominal Voltage (VDC)	Voltage Range (VDC)	@ Maximum Efficiency			Efficiency	Terminal Type	Shaft Dia. (in.)	Shaft Length (in.)	Size Dia. x Depth (in.)	Pricing		
						Current (Amps)	Speed (RPM)	Torque (g-cm)						1	10	100
231917	ReliaPro	FE-260-2670	1	1.5	1.5-3	0.66	3700	10.5	42.9	0.12"/solder	0.078	0.314	0.937 x 1.063	\$2.25	\$1.95	\$1.75
238465	ReliaPro	RF-310TA-11400 (CW)	2	2.5	1-6	0.06	2190	3.3	75.0	0.05"/solder	0.078	0.70	0.962 x 0.712	2.95	2.65	2.39
238458	ReliaPro	RF-300CA-11400 (CW)	3	3	1-6	0.065	2400	4.3	56.4	3" wires	0.078	0.19	0.96 x 0.491	3.95	3.49	2.95
1950930	ReliaPro	RF-300CA-11400-22	3	3	1.2-6	0.073	2970	3.8	55.0	3" wires	0.078	0.22	0.96 x 0.489	3.95	3.49	2.95
154915	Star Motor	ST130-12240-38	4	3	1.5-3	0.17	3588	7.4	55.0	0.09"/solder	0.08	0.37	0.79 x 1.13	1.25	1.09	.99
1939589	ReliaPro	FF-130RH-15210	5	3	1-4	0.17	4280	5.8	50.0	0.08"/solder	0.08	0.24/0.21	0.79 x 0.98	1.95	1.75	1.59
1951449	ReliaPro	QJT-260-18130	1	3	1.5-4.5	0.46	4780	10.0	40.0	0.12"/solder	0.078	0.314	0.944 x 1.071	1.75	1.59	1.39
231925	ReliaPro	FE-260-2295	1	3	1.5-4.5	0.63	6850	14	53.9	0.12"/solder	0.078	0.314	0.937 x 1.063	1.75	1.59	1.39
154923	Star Motor	ST-130-22770	4	3	1.5-3	1.150	12500	10.3	40.0	0.09"/solder	0.08	0.37	0.79 x 1.13	1.45	1.29	1.15
211246	ReliaPro	RC-260RA-2670	6	4.5	3-4.5	1.430	15290	21.8	53.0	0.11"/solder	0.08	0.28	0.93 x 1.06	1.49	1.35	1.19
238511	ReliaPro	RF-500TB-12560	7	6	1.5-12	0.08	2180	11.6	50.6	0.08"/solder	0.078	0.385	1.259 x 0.767	3.95	3.49	2.75
231829	ReliaPro	PC-280-16210	8	6	3-12	0.28	4260	18	47.6	0.08"/solder	0.078	0.433	0.944 x 1.200	2.49	2.25	1.95
231781	ReliaPro	PC-130F-12240	9	6	3-9	0.25	6800	7	33.4	0.08"/solder	0.078	0.377	0.803 x 0.984	2.49	2.25	1.95
232144	ReliaPro	FF-050S-11170	10	7	1.5-9	0.17	8500	7	51.3	0.08"/solder	0.059	0.433	0.61 x 1.059	2.49	2.25	1.95
177498	ReliaPro	RC280RA-2485	11	7.2	3-14	1.180	14260	33.3	57.0	0.11"/solder	0.08	0.43	0.95 x 1.20	2.25	1.95	1.75
2095533	Mabuchi Motor	RK-270SH-16175	12	9	4.5-18	0.370	6320	32.5	—	0.08"/solder	0.08	0.344	0.96 x 1.21	2.49	2.25	1.95
231802	ReliaPro	PC-130F-10370	9	9	6-12	0.15	6410	8.5	43.9	0.08"/solder	0.078	0.377	0.803 x 0.984	1.75	1.59	1.39
1955669	Canon	DN26-T41NIB	13	12	4-12	0.25	2200	34.33	—	0.11"/solder	0.08	0.30	1.01 x 1.00	1.19	.99	.79
174693	ReliaPro	21226-384221	14	12	9-14	0.015	3000	85.06	—	0.11"/solder	0.08	0.71	0.97 x 1.19	2.95	2.65	2.39
232013	ReliaPro	MD5-12160	15	12	12-24	0.30	4000	34.3	39.1	0.12"/solder	0.091	0.622	1.082 x 1.279	2.25	1.95	1.75
231732	ReliaPro	PC-130SF-09480	9	12	6-24	0.11	4800	12.3	49.6	0.08"/solder	0.078	0.377	0.803 x 0.984	2.49	2.25	1.95
238473	Mabuchi Motor	RF-370CA-15370	16	12	3-12	0.17	4840	187	75.0	0.08"/solder	0.078	0.346	0.960 x 1.213	2.95	2.65	2.39
206949	Nichibo	QJT360S14280	17	12	9-30	0.35	4930	44.5	52.0	0.11"/solder	0.09	0.45	1.09 x 1.30	2.95	2.75	2.25
667411	ReliaPro	HRF-370CA-12V	14	12	6-15	0.13	5100	20.0	64.0	0.08"/quick conn.	0.08	0.523	0.960 x 1.20	1.55	1.39	1.25
231750	ReliaPro	PC-130SF-09400	9	12	6-24	0.15	5130	14.3	42.5	0.08"/solder	0.078	0.377	0.803 x 0.984	1.49	1.35	1.19
2081908	Mabuchi Motor	FK260SA-10400	5	12	0-15	0.13	5330	16.33	58.4	0.08/solder	0.08	0.474	0.952 x 1.06	.85	.75	.65
231896	ReliaPro	FE-260-08450	1	12	6-12	0.11	5560	10.3	46.6	0.12"/solder	0.078	0.314	0.937 x 1.063	1.55	1.39	1.25
232005	ReliaPro	UC-280S-19160	9	12	6-12	0.57	9000	46.6	63.4	0.08"/solder	0.078	0.433	0.944 x 1.200	2.55	2.29	1.95
2125528	Mabuchi Motor	RS-385SH	12	12	6-24	0.89	8170	80.5	62.5	0.11"/solder	0.09	0.56	1.47 x 1.08	1.95	1.75	1.59
1810099	Mabuchi Motor	FK-260SA (14280)	5	12	12-24	0.063	8600	14.8	55.0	0.08"/solder	0.08	0.43	0.96 x 1.06	1.19	.99	.79
2081895	Mabuchi Motor	FC-280ST-18180*	9	12	8-15	0.16	9700	54.3	59.08	Wire/push-in	0.08	0.45	0.95 x 1.32	1.25	1.09	.95
232022	ReliaPro	MD5-1885	15	12	6-18	0.74	9820	53.5	60.7	0.11"/solder	0.091	0.622	1.082 x 1.279	2.95	2.65	2.29
232040	ReliaPro	MD5-2070	15	12	6-12	1.20	12150	62.2	54.1	0.12"/solder	0.091	0.622	1.082 x 1.279	2.75	2.49	2.25
232047	ReliaPro	MD5-2445	15	12	6-12	2.05	19850	79.7	66.0	0.12"/solder	0.091	0.622	1.082 x 1.279	2.95	2.79	2.49
2082177	Johnson Electric	H615-66430	18	13.5	5.0-13.5	1.44	18300	40.6	68.4	0.11"/solder	0.124	0.75	1.4 x 2.23	2.49	2.25	1.95
2082185	Johnson Electric	H615-65050	18	13.6	5.0-13.6	1.44	4575	99.2	—	0.11"/solder	0.124	0.65	1.4 x 1.96	2.25	1.95	1.75
137412	Johnson Electric	3E3151A3	11	14.4	—	1.84	2300	70.8	76.0	20" wires	0.125	0.35	1.40 x 1.96	1.95	1.75	1.49
232101	ReliaPro	MD5-1980AS-AA	19	24	12-24	1.43	22600	88.5	60.9	0.24"/solder	0.091	0.512	1.083 x 1.279	3.95	3.55	2.95
1586040	ReliaPro	RS365PH-11240	18	24	9-28	0.07	10700	411	62.5	0.11"/solder	0.09	0.49	1.08 x 1.28	2.75	2.49	2.25
137614	Johnson Electric	6B4823A	11	24	—	0.10	2300	78	61.0	0.8"/quick conn.	0.125	0.53	1.40 x 1.96	2.25	1.95	1.75
2120461	Mabuchi Motor	RS385PH	15	24	—	0.261	2225	11.08	59.8	0.11"/solder	0.09	0.64	1.15 x 1.5	2.25	1.95	1.75

\* Reverse

### Hi-Torque

237391	ReliaPro	29SYT003	20	13.5	13.5	13	18000	509	—	Quick connect	0.125	1.003	1.141 x 2.283	\$9.95	\$8.95	\$7.95
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## 6, 12 & 24VDC Reversible Gear Head Motors

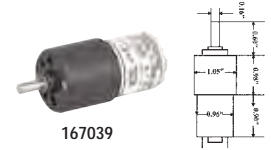
★ Web Code: KBB

- Solder-type terminal
- High torque construction
- Dielectric strength: 300VDC
- Insulation resistance: 10MΩ
- Oil bearing design for long service life

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### HN27GD Series

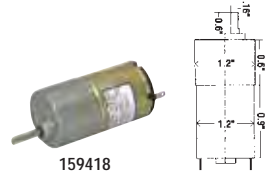
Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
				Current (mA)	Speed (RPM)	Torque (g-cm)					1	5	25
167039	GH12-0953Y	12	4.5 - 24	90	9	1200	188:1	1.0 x 0.9	1.1 x 1.0	.16 x .60	\$18.95	\$16.95	\$15.25
249480	GH12-1213Y7-0	12	4.5 - 24	51	90	460	70:1	1.1 x 0.6	1.0 x 0.9	.16 x .60	19.95	18.95	17.95
167047	GH12-1828Y	12	4.5 - 24	195	31	1300	90:1	1.1 x 1.3	1.1 x 0.8	.16 x .60	23.95	21.55	19.45



HN27GD Series

### GH30GM Series

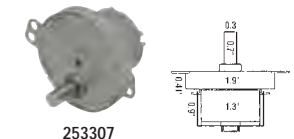
Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
				Current (mA)	Speed (RPM)	Torque (g-cm)					1	5	25
153438	GH12-1045Y	12	3.0 - 12	90	13	800	200:1	0.9 x 1.0	1.1 x 0.6	.16 x .70	\$18.95	\$16.95	\$15.25
170642	GH12-1828Y-10	12	6.0 - 24	105	8	3500	332:1	1.2 x 1.2	1.2 x 0.9	.16 x .70	24.95	22.49	19.95
159418	GH12-1921Y	12	4.5 - 12	200	25	2000	132:1	1.2 x 1.2	1.2 x 0.9	.16 x .70	24.95	22.49	19.95
162191	GH12-1324Y225	12	4.5 - 12	145	190	300	30:1	1.0 x 0.9	1.1 x 0.6	.16 x .70	17.95	15.95	14.35



GH30GM Series

### 32GM Series

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Current (mA)	Speed (RPM)	Torque (g-cm)	Gear Ratio	Gear Case Size Dia. x Height (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
										1	5	25
253403	32-009	6	64	2.7	2500	450:1	1.9 x 0.41	1.3 x 0.9	.30 x .70	\$19.95	\$17.95	\$15.95
253323	32-004	6	44	6	1500	200:1	1.9 x 0.41	1.3 x 0.9	.30 x .70	14.95	13.49	11.95
253307	32-002	6	38	8	1200	150:1	1.9 x 0.41	1.3 x 0.9	.30 x .70	19.95	17.95	15.95



32GM Series

### 38GM Series

253534	38-010	12	97	24	7500	250:1	1.46 x 1.0	1.3 x 0.9	.24 x .50	\$16.95	\$14.95	\$13.49
253526	38-009	12	93.5	36	5400	167:1	1.46 x 1.0	1.3 x 0.9	.24 x .50	18.95	16.95	15.35
253518	38-008	12	87.5	40	4800	150:1	1.46 x 1.0	1.3 x 0.9	.24 x .50	17.95	15.95	13.95
253500	38-007	12	82	60	3200	100:1	1.46 x 0.7	1.3 x 0.9	.24 x .50	19.95	17.95	15.95
253497	38-006	12	80	66	2100	90:1	1.46 x 0.7	1.3 x 0.9	.24 x .50	19.95	17.95	15.95
253489	38-005	12	76	110	1300	56:1	1.46 x 0.7	1.3 x 0.9	.24 x .50	18.95	16.95	15.35
253471	38-004	12	74	120	1100	50:1	1.46 x 0.7	1.3 x 0.9	.24 x .50	14.95	13.45	11.95
253446	38-001	12	61.8	600	350	10:1	1.46 x 0.7	1.3 x 0.9	.24 x .50	19.95	17.95	15.95



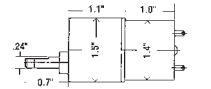
38GM Series

### GH35GM Series Plastic Gears

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
				Current (mA)	Speed (RPM)	Torque (g-cm)					1	5	25
155012	GH12-1926	12	4.5 - 12	250	2	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	\$21.95	\$19.95	\$17.95
155821	GH12-1830Y-P	12	4.5 - 12	220	4.5	4500	1000:1	1.3 x 0.9	1.5 x 1.0	.23 x .90	22.95	20.49	18.49
155839	GH12-1641T-L	12	3.0 - 12	250	20	3000	270:1	1.3 x 0.9	1.5 x 0.8	.23 x .90	25.95	23.35	20.95
152911	GH12-1926Y	12	4.5 - 12	172	40	2370	100:1	1.3 x 1.0	1.5 x 0.7	.24 x .90	24.95	22.45	19.95
155855	GH12-1641T-F	12	3.0 - 12	250	71	1000	60:1	1.3 x 0.9	1.4 x 0.9	.23 x .90	24.95	22.45	19.95
151441	GH12-1632TI	12	4.5 - 12	275	57	2200	100:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	21.95	19.95	17.95
155863	GH12-1926Y-F	12	4.5 - 12	300	70	1000	60:1	1.4 x 0.7	1.3 x 1.0	.24 x .70	24.95	22.45	19.95
161374	GH12-1345T	12	4.5 - 12	185	116	650	30:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	23.95	21.49	19.49
161382	GH12-1634T	12	4.5 - 12	293	145	850	30:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	21.95	19.95	17.95
164786	GH12-1640Y	12	4.5 - 24	120	220	180	10:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	28.95	25.95	22.95
176050	GH12-1640Y00	24	12 - 24	340	1.8	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	22.95	20.49	18.49
11799	CB5M-24	24	6 - 24	110	14.6	1800	—	1.3 x 1.0	1.4 x 1.1	.196 x .375	12.95	11.49	9.95
176032	GH24-1640Y06	24	12 - 24	340	50	2000	90:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	24.95	22.45	19.95
176023	GH24-1640Y19	24	12 - 24	340	148	1000	30:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	24.95	22.45	19.95



155012



155013  
GH35GM Series

### GH35GM Series Metal Gears

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	Current (mA)	Speed (RPM)	Torque (g-cm)	Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
											1	5	25
155013	HN-GH12-1632T-R-M	12	4.5 - 12	250	2	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	\$22.95	\$21.95	\$19.95
155822	GH12-1830Y-P-R-M	12	4.5 - 12	250	4.5	4500	1000:1	1.3 x 0.9	1.5 x 1.0	.23 x .90	22.95	20.65	18.55
151442	HN-GH12-1632T-R-M	12	4.5 - 12	275	57	2200	100:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	21.95	19.95	17.95
155864	GH12-1926Y-F-R-M	12	4.5 - 12	300	70	1000	60:1	1.3 x 0.9	1.4 x 0.9	.24 x .70	21.95	19.95	17.95

## 120VAC Gear Motor

### 6.0 RPM - 2.9 Watts

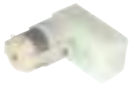
- Operating voltage: 120VAC @ 60Hz
- Torque: >3.6 kg-cm
- Screw down tabs for mounting (2.3" diagonal mounting hole space)
- Typical applications: air conditioner turnleaf motor, microwave turnplate motor



SOLARBOOTS

## Gear Head Motor

- Current @ 6V: 57mA
- Stall current @ 6V: 633mA
- Stall torque @ 6V: 59.26 in. oz.
- Gear ratio: 143:1
- RPM @ 6V: 80



Part No.	Product No.	Shaft Dia./Length	Connector	Size	1	5	25	Part No.	Mfr. P/N	Size (L"xW"xH")	1	5	25
213488	SOTY2-R	0.27" x 0.65"	12" wires	2.0"D x 1.0"T	\$14.95	\$13.45	\$11.95	400995	GM8	2.2 x 1.9 x 0.9	\$8.75	\$7.75	\$6.95

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

**JAMECO ReliaPro**

## 1.3VDC & 3VDC Vibrating Motors

• Typical applications: cellular phones, pagers and toys



Fig. 1

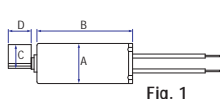


Fig. 1



Fig. 2



Fig. 3



Fig. 4

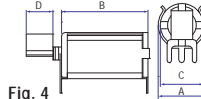


Fig. 4

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★ Web Code: NBC

Part No.	Cross Ref. No.	Fig.	Operating Voltage (VDC @ mA)	Operating Range (VDC)	Rated RPM @ VDC	Lead Length (in.)	Motor Size (A x B) (Dia. x Depth)	Shaft Size (C x D) (Dia. x Length)	Pricing		
									1	10	100
175062	OTL-7AL	1	1.3 @ 62	0.70 - 1.60	7000 @ 1.3	0.7	0.28 x 0.67	0.10 x 0.18	\$4.55	\$3.95	\$3.69
175396	OTL-4AL	3	1.3 @ 65	0.70 - 1.60	8500 @ 1.3	0.75	0.16 x 0.55	0.15 x 0.23	4.75	4.25	3.85
256306	6ZK003	2	1.3 @ 80	0.85 - 1.60	8500 @ 1.3	1.0	0.23 x 0.39	0.10 x 0.10	3.35	2.95	2.65
256322	6ZK211	4	1.3 @ 80	0.80 - 1.60	8500 @ 1.3	PC terminal	0.27 x 0.48	0.11 x 0.11	2.75	2.49	2.25
256365	7ZK692	2	3.0 @ 60	2.40 - 3.00	6500 @ 3.0	4.7	0.28 x 0.66	0.18 x 0.22	4.65	4.19	3.75
256382	7ZK681	2	3.0 @ 60	2.40 - 3.60	7500 @ 3.0	1.1	0.28 x 0.66	0.12 x 0.16	4.65	4.19	3.75
256314	6ZK053	2	3.0 @ 75	1.60 - 3.60	8500 @ 3.0	1.0	0.23 x 0.39	0.10 x 0.10	3.25	2.95	2.65
256331	6ZK261	4	3.0 @ 75	2.40 - 3.00	8500 @ 3.0	PC terminal	0.27 x 0.48	0.11 x 0.11	3.25	2.95	2.65

## Stepper & Servo Motor Controllers

### Multi-Stepper Motor Control Board

- Current-mode coil driver up to 2A/45V
- 11 analog channels, A/D converter, 12-bit resolution
- 24-bit position register; can be read while motor is moving
- High-speed serial communication interface 9.6kbps-230.4kbps
- Linear acceleration/deceleration capability up to 8500 step/sec.
- Full step (monophasic and biphasic), half step and external driver modes
- Simultaneous/independent control of up to 4 stepper motors in a single board (16 stepper motors by daisy chaining 4 boards)
- 26 digital I/O and two SPI interfaces for control of external devices
- Size: 7.7"L x 5.0"W x 1.0"W



Shown w/ motors  
- not included



Part No.	Mfr. Part No.	1	5
168729	ST400NT-R10	\$399.95	\$379.95

### Sport232-ST One Axis Stepper Motor Controller & DAC Board

- Shaft encoder capabilities for close loop applications
- Home, limit CW/CCW, abort, pulse and direction output signals
- 4-channels with signal conditioning 0 to 2.5V, 0 to 10V
- Linear acceleration/deceleration, profile movements through 128 bytes internal FIFO
- Full, half steps (monophasic, biphasic)
- 8 digital I/O and 8 analog inputs w/ 12-bit resolution
- Free 32-bit DLL for Windows 9x/NT/2000/XP, Linux and Labview



Part No.	Mfr. Part No.	1	5
355047	Sport232-ST	\$164.95	\$156.75

**Pololu**  
Robotics & Electronics

### High Power Motor Driver

- N-channel MOSFET H-bridge enables bidirectional control one of DC brushed motor
- 5.5-30V operating voltage range
- 15 amps continuous output current per channel
- 40kHz max. PWM frequency
- 5.5V max. logic voltage
- Size: 1.3"W x 0.8"L
- Soldering required



**NEW**  
MARKED IN PINK

Part No.	Mfr. Part No.	1	5
2128235	755	\$39.95	\$37.95

We offer data sheets for most of the products we carry. Find them easily on the product specification page at [www.Jameco.com](http://www.Jameco.com).

★ Stepper and Servo Motor Controllers — Enter Web Code VBA

## KAE

### Industrial Motion Controllers for Brush, Brushless & Stepper Motors

- 323942:** • For brush-type DC motors with 2 or 3 channel incremental encoders
- P.I.D. Servo control, trapezoidal position profiling, velocity mode, 32-bit resolution
  - Integrated 12 to 48VDC supply power amplifier @ 3A continuous, 6A peak
  - Limit switch inputs, general purpose analog input, PWM, DIR output for use with external amps

- 323951:** • For 3-phase brushless motors with hall effect sensors or conventional DC brush-type motors
- Amplifier capable of driving 6A continuously @ up to 48VDC
  - High current amplifier: 7A continuous, 10A peak, 12 to 48VDC supply
  - Support for linear & circular interpolation using the PIC-SERVO CMC chipset

- 184997:** • Trapezoidal position profiling, velocity mode, up to 50,000 steps per second
- Full/half step bipolar chopper drive, 2A per phase, 7.5 to 46VDC supply
  - Integrated indexer and driver for 2 or 4 phase stepper motors

Part No.	Mfr. Part No.	Description	Size (L x W x H)	1	5
323942	KAE-T0V10-BDV1	PIC-SERVO motor control board	3.1" x 2.1" x 0.9"	\$159.95	\$151.95
323951	KAE-T0V10-BD3PHV1	PIC-SERVO 3-phase motor control board for brush or brushless motors	3.1" x 3.1" x 0.9"	239.95	227.95
184997	PIC-STEP	PIC-STEP motor control board	3.1" x 2.1" x 0.9"	159.95	151.95



323951



184997

### Playstation® 2 Servo Motor Controller Interface

The controller features an integrated power supply that allows you to use available power supplies, batteries, wall transformers, or anything from 6V to 30V, either AC or DC. The IPS will regulate the power to run your servo motors efficiently. Power is supplied through on-board 2.5mm jack.

A 2.5mm plug is provided for connecting your own power supply.

- 5 amp servo motor controller
- Allows manual control of up to 6 servo motors
- Servo motor speed proportional to tilt of joystick
- Rumble feature activates when limit of rotation is reached (clockwise or counter-clockwise)
- Uses Playstation® PS2 wired or wireless controller (not included)
- Servo motors not included



Part No.	Mfr. Part No.	Description	1	5
2124875	PS-SMC-06-05A	Playstation® 2 servo motor controller interface	\$119.95	\$113.95



RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

JAMECO ReliaPro

## Bipolar & Unipolar Stepper Motors

★ Web Code: UBN

Jameco offers the industry's widest variety of off-the-shelf two-phase bipolar and four-phase unipolar stepper motors for your precision applications. Be sure to check out the wide selection of 2 to 24VDC models below.

- Ball bearings
- Dielectric strength: 500V, 50Hz/minute
- Insulation resistance: 100MΩ @ 500VDC
- 18" lead wires
- Ambient temp.: -10°C to +55°C
- Use P/N 161998, pg 188, for shaft coupler

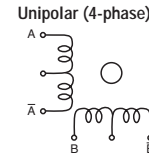
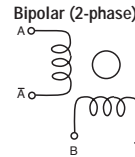


Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10

Part No.	Mfr.	Product No.	Fig.	Drive System	Voltage (VDC)	Step Angle	Phase Resis. (Ω)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Depth (in.)	Wt. (lbs.)	Pricing		
																			1	5	25
237526	JRP	42BYGH001	1	Bipolar	2.0	1.8	2.1	950	2.3	200	1700	1.22	0.10	0.20	0.95	1.67	1.34	0.50	\$17.95	\$15.95	\$14.55
237569	JRP	57BYG009	2	Unipolar	2.4	1.8	1	2400	1.5	—	5914	1.86	0.20	0.25	0.83	2.29	2.20	1.40	24.95	22.49	19.95
1581231	ORM	PX243M-01AA	3	Unipolar	4	0.9	8.4	670	10	—	793	1.79	0.08	0.195	0.88	1.67	1.27	0.46	19.95	17.95	15.95
237607	JRP	57BYGH001	1	Unipolar	5	1.8	5	1000	—	—	3976	1.86	0.20	0.25	0.83	2.24	1.61	1.10	34.95	31.49	28.95
237825	JRP	25BY4801	4	Unipolar	5	7.5	10	500	—	45	110	1.38	0.14	0.08	0.35	0.98	0.56	0.07	9.95	8.95	7.95
223870	JRP	57BYG070	2	Unipolar	5.4	1.8	3.6	1500	6	977	8974	2.65	0.20	0.25	0.80	2.20	2.20	2.00	29.95	26.95	24.25
237631	JRP	57BYGH803	1	Unipolar	6.3	1.8	4.2	1500	—	—	14276	1.86	0.20	0.25	0.83	2.24	2.99	2.43	59.95	53.95	48.95
171601	◆	PF35T48L4*	5	Unipolar	7	7.5	20	350	9	40	680	1.68	0.14	0.078	0.47	1.38	0.58	0.15	2.95	1.95	1.75
172646	JRP	42BYG205	2	Unipolar	9.6	1.8	75	480	15	220	2300	1.73	0.10	0.20	0.90	1.70	1.40	0.50	19.95	17.95	15.95
224022	JRP	42BYG016	6	Unipolar	12	1.8	75	160	40	150	900	1.73	0.10	0.20	0.70	1.70	1.30	0.50	21.95	19.75	17.75
155433	JRP	42BYG228	6	Unipolar	12	1.8	30	400	23	220	2000	1.73	0.10	0.20	0.90	1.70	1.50	0.50	20.95	18.95	16.95
237543	JRP	57BYG007	2	Unipolar	12	1.8	32	380	30	—	2957	1.86	0.20	0.25	0.83	2.29	1.61	1.00	24.95	22.49	19.95
238538	JRP	42BYGH404	7	Unipolar	12	1.8	30	400	25	250	3200	1.22	0.10	0.20	0.95	1.67	1.89	0.60	21.95	19.75	17.75
162027	JRP	57BYG084	2	Unipolar	12	1.8	20	600	22	725	6000	2.65	0.20	0.25	1.00	2.20	2.00	1.30	35.95	32.25	28.95
237876	JRP	25BY4809	4	Unipolar	20	7.5	50	400	16	45	155	1.42	0.35	0.08	0.22	0.98	0.87	0.10	3.95	3.59	3.39
238115	JRP	35BY48B08	8	Unipolar	24	7.5	75	320	38	65	270	1.65	0.13	0.08	0.35	1.38	0.59	0.15	8.49	7.49	6.75
237729	JRP	42BY48H07	9	Unipolar	24	7.5	85	280	78	130	780	1.95	0.14	0.12	0.39	1.65	0.87	0.27	6.95	6.25	5.49
2120479	◆	RDS3000	10	Bipolar	4	1.8	4	1000	10	—	3600	1.21	0.09	0.195	0.312	1.67	1.62	0.40	14.95	13.49	11.95
237490	JRP	39BYG001	6	Bipolar	5	1.8	5	1000	—	150	1800	1.22	0.10	0.20	0.91	1.54	1.34	0.44	19.95	17.95	15.95
237578	JRP	57BYG061	2	Bipolar	6	1.8	12	500	24	—	3569	1.86	0.20	0.25	0.83	2.29	1.61	1.00	37.95	33.95	30.75
237519	JRP	42BYG017	6	Bipolar	6.3	1.8	15	420	16	150	1400	1.22	0.10	0.20	0.51	1.67	1.34	0.50	19.95	17.95	15.95
237454	JRP	39BYG201	6	Bipolar	9.6	1.8	20	480	—	200	1000	1.22	0.10	0.20	0.20	1.54	0.98	0.44	17.95	15.95	13.95
155460	JRP	42BYG023**	6	Bipolar	12	1.8	30	400	36	220	2100	1.73	0.10	0.20	0.60	1.70	1.30	0.50	20.95	18.95	17.45
237472	JRP	39BYG401A	6	Bipolar	12	1.8	30	400	32	200	2100	1.22	0.10	0.20	0.95	1.54	1.34	0.44	21.95	19.75	17.75

\* 171601: Dual shaft with 10 tooth gear \*\* 155460: Dual shaft

**MOTION**

## Motor Solutions in Motion

★ Web Code: VBA

- Easy to set up; easy to use
- Daisy chainable on a 4 wire bus
- USB/RS232/RS485 Inetface available

### 4-Axis Stepper Controller & Driver

- Full-featured 4-axis 32-bit position controller with power drivers
- Four independent 1-Amp chopper (PWM) drives
- Operates from 9-30V
- RS-485 and USB communication via virtual comm port
- On-board EEPROM for user program storage
- Daisy-chain up to 16 units
- Stand alone operation with no connection to a PC
- 12 ADC inputs, halt/branch on ADC value
- Milliohm FETs; runs cool
- Dimensions: 2.25"L x 2.25"W x 0.7"H



### USB Stepper Controller & Driver

- Full-featured 1-axis 32-bit position controller with power drive
- 0.5A power drive
- Operates from 9-30V or USB port
- USB communication via virtual comm port
- On-board EEPROM for user program storage
- Daisy-chain up to 16 units
- Stand alone operation with no connection to a PC
- 4 inputs, 2 outputs, halt/branch on input status
- Milliohm FETs; runs cool
- Dimensions: 2.0"L x 1.0"W x 0.5"D



### Inch-Size Stepper Controller & Driver

- Go Left, Go Right upon switch closure
- 1 Amp chopper (PWM) drive
- Operates from 9-30V
- Potentiometer-settable speed and current
- No programming required
- Acceleration programmable via resistor change.
- 2 direction and 2 limit switch inputs
- Milliohm FETs; runs cool
- Dimensions: 1.0"L x 1.0"W x 0.5"D



Part No.	Product No.	1	5	Part No.	Product No.	1	5	Part No.	Product No.	1	5
2123291	EZ4AXIS	\$389.95	\$369.95	2123303	STEPPER-STICK-CD	\$164.95	\$156.95	2123311	Intelli-Inch-LR	\$74.95	\$69.95

\* JRP = Jameco ReliaPro | ORM = Orient Motor | ◆ Manufacturer Varies

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

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NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

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# Servo Motors & Solenoids

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

## Scott Edwards Electronics, Inc.

### Serial Servo Controller Module

- Controls 8 pulse-proportional servos
- Receives serially at 2400 or 9600 baud
- Module is addressable, allowing 2 units to share the same line to control a total of 16 servos
- Connections to serial input can be established using a modular jack (P/N 115554, pg 56) or modular adapter from DB9 to RJ11 (P/N 114738, pg 57)
- Size (PCB): 1.9"L x 1.4"W • One-year warranty



★ Web Code: VBA

Part No.	Description	1	5
151001	Mini SSC II	\$43.95	\$41.75

### 12VDC Power Solenoid

- 12VDC • 4Ω coil
- Handles a 225A load
- Intermittent 50% duty cycle
- 1/4-20 copper studs
- Contractors power solenoid
- 2.25" mounting centers • Size: 1.86" x 3" base



Part No.	Product No.	1	5	25
1585645	93285	\$3.95	\$3.49	\$2.95

### 12VDC Solenoid Valve

- Current: 350mA
- Operating voltage: 12VDC
- Dimensions: 1.2"L x 0.92" Dia.
- Air leakage: 4psi, 1c.c./min. max.
- 0.250" quick disconnect terminals
- Operational temp.: -29°C to 85°C



★ Web Code: MEJ

Part No.	Product No.	1	5	25
169835	TAV-0829-R	\$9.95	\$8.95	\$7.95

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That Requires Special Pricing?  
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## Servo Motors and Accessories

- + pulse width 1500µsec. neutral control system
- Operating voltage range: 4.8V to 6V



### Motors

Part No.	Manufacturer Part No.	Oper. Speed (4.8V@no load)	Stall Torque @ 4.8V (kg.cm)	Direction	Operating Angle	Current Drain (mA, idle/ mA no load)	Dimensions (L" x W" x H")	Pricing	
								1	5
2128198	1053*	.12sec/60°	0.6	clockwise	—	—	7.9 x 0.3 x 0.8	\$9.95	\$8.95
395760	HS-322HD	.19sec/60°	3.0	Clockwise	40°/one side pulse	7.4/160	2.1 x 0.8 x 1.4	14.95	13.49
358635	HS-311	.19sec/60°	3.0	Clockwise	40°/one side pulse	7.4/160	1.5 x 0.8 x 1.1	16.95	15.95
358619	HS-805BB	.19sec/60°	19.9	Clockwise	45°/one side pulse	8/700	2.6 x 1.2 x 1.3	59.95	56.95
395786	HS-422	.21sec/60°	3.3	Clockwise	45°/one side pulse	8/150	1.6 x 0.8 x 1.4	19.95	18.95
2124980	HS-485HB	.22sec/60°	4.8	Clockwise	45°/one side pulse	8/150	1.6 x 0.8 x 1.5	16.95	15.95
2124971	HS-645MG	.24sec/60°	7.7	Clockwise	45°/one side pulse	8.8/350	1.6 x 0.8 x 1.5	34.95	31.49
166351	HS-755HB	.28sec/60°	11.0	Clockwise	40°/one side pulse	8/230	2.3 x 1.1 x 2.0	44.95	42.95

\* Manufacturer: Pololu Corp.

### Accessories

Part No.	Description	1	5
358811	Servo gripper, 1.3" opening (compatible with all servos above)	\$19.95	\$18.95
400400	Servo gearbox, 2:1 ratio, for use with P/N 358619	34.95	29.95
400418	Servo gearbox, 4:1 ratio, for use with P/N 358619	34.95	29.95
396279	3 color servo wire (red, black, yellow), 22-20, 50'	15.95	14.49



### 6-Channel USB Servo Controller

- 5-16V operating voltage
- USB, TTL (5V) serial & internal scripting
- 0.25µ resolution with built-in speed and acceleration control
- Configure channels as outputs for RC servos, ESCs, digital outputs or analog inputs
- 1kB internal script memory
- Can be daisy-chained
- Free config. & control app for Windows®

★ Web Code: VBA



NEW  
MARKED IN PINK

Part No.	Mfr. Part No.	Size (L" x W")	1	5
2128180	1350	1.2 x 0.85	\$24.95	\$22.95

### Continuous Rotation Servos

Controlled easily from a BASIC Stamp or SX chip I/O pin using PBASICs or SX/B's PULSOUT commands

- 4-6VDC @ ~190mA
- 2110692/283021: Holds position over 180° range; standard servo
- 283039: Bi-directional continuous rotation and includes an adjustable potentiometer port to center the servo

Part No.	Mfr. Part No.	Size (L" x W" x H")	1	5
2128201	1248*	1.7 x 0.8 x 1.6	\$13.95	\$12.95
283021	900-00005	2.2 x 0.8 x 1.6	14.95	13.95
283039	900-00008	2.2 x 0.8 x 1.6	14.95	13.49
2110692	900-00014	0.9 x 0.37 x 0.61	19.95	17.95

\* Manufacturer: Pololu Corp.



JAMECO ReliaPro

## 12VDC & 24VDC Continuous Push/Pull Solenoids

★ Web Code: MEJ



Part No.	*Mfr.	Product No.	Type	Coil Res. (Ω)	Power Consump. (W)	Holding Force (lbs. @20°C)	Stroke (in.)	Dimensions Length x Dia. (in.)	Shaft Dia. (in.)	Wt. (lbs.)	Pricing		
											1	5	25
1919351	JRP	SMO-0415S12STD	Open frame-push	12	180	0.8	0.026	0.20	0.6 x 0.4 x 0.3	0.157	\$16.95	\$15.25	\$13.75
1919385	JRP	SMO-0420S12STD	Open frame-push	12	120	1.2	0.04	0.10	0.8 x 0.5 x 0.4	0.060	14.95	13.49	11.95
1919377	JRP	SMO-0415L12STD	Open frame-pull	12	120	1.2	0.04	0.10	0.8 x 0.5 x 0.4	0.157	9.95	8.95	7.95
262247	JRP	SMO-0520L12STD	Open frame-pull	12	90	1.6	0.16	0.24	0.8 x 0.6 x 0.5	0.200	9.95	8.95	7.95
262263	JRP	SMO-0837L12STD	Open frame-pull	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.310	8.95	7.95	6.95
262272	JRP	SMO-0837S12STD	Open frame-pull	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.08/0.31*	9.95	8.95	7.95
262167	JRP	SMT-1325L12STD	Tubular-pull	12	36	4.0	0.11	0.47	1.0 x 0.5	0.200	14.95	13.45	11.95
142464	JRP	SMT-1130L12A	Tubular-pull	12	36	4.0	0.63	0.40	1.6 x 0.4	0.150	12.95	11.49	9.95
1919422	JRP	SMT-1632L12STD	Tubular-pull	12	26.6	5.5	0.88	0.06	1.6 x 0.6	0.196	12.95	11.49	9.95
1919191	+	121E18711	Tubular-pull	24	44	12.8	1.00	1.00	2.3 x 1.0	0.430	6.95	6.25	5.59
215141	JRP	SMT-2251L24AA	Tubular-pull	24	60	10.0	4.00	1.00	3.0 x 1.0	0.440	13.95	12.55	11.29
149754	JRP	SMT-1325S12A	Tubular-push	12	36	4.0	0.75	0.47	1.9 x 0.5	0.063	19.95	17.95	15.95
149762	JRP	SMT-1632S12A	Tubular-push	12	21	7.0	1.50	0.24	2.5 x 0.6	0.098	16.95	15.25	13.75
262175	JRP	SMT-2551S24STD	Tubular-push	24	57.6	10.0	1.43	0.71	2.0 x 1.0	0.118	14.95	13.49	11.95
262191	JRP	SMT-3257S24STD	Tubular-push	24	44	13.0	6.80	0.70	2.3 x 1.3	0.160	23.95	21.49	18.95
1919203	LEX	191172-001	Stroke-push	12	45	7.3	—	0.125	1.0 x 0.5	0.060	3.95	3.55	2.95



† Open frame type dimensions: L" x W" x H" \* Dual shaft #For compression spring, recommend P/N 2131506, pg 99

\* JRP = Jameco ReliaPro | LEX = Lexed | + Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

Call for additional OEM PRICING - we carry major manufacturers.

## DC Brushless Tubeaxial Fans & Blowers

★ 5V Web Code: TAS



★ 12V Web Code: LBZ



695050

1581249

mm to Inches Conversion Chart

1809936

1951490

mm	6.8	10	15	20	25	28	30	32	35	38	40	45	51	60	76	80	92	95	97	120	127	150	172
Inches	0.27	0.40	0.60	0.80	1.00	1.10	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.99	3.15	3.63	3.74	3.82	4.69	5.00	5.90	6.77

Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
2095285	Adda	AD1505LX-K90	5	15 x 15 x 6	0.1	Hypro	50	0.25	CE	9.6	5.5"	\$8.95	\$7.95	\$6.95	\$5.95
2099809	Sunon	KDE0501PDB3-8	5	20 x 20 x 8	1.2	Ball	80	0.4	UL/CUL	21	5.5"	8.95	7.95	6.95	6.25
2095277	Adda	AD2005LX-G70	5	20 x 20 x 10	0.6	Hypro	80	0.4	UL/CUL/CSA/TUV/CE	20	5.5"	8.95	7.95	6.95	6.25
131247	Adda	AD0205LX-G50	5	25 x 25 x 10	1.8	Sleeve	100	0.5	UL/CSA/CE	15.6	5.5"	14.95	13.49	11.95	10.95
695050	Sunon	GM0502PFV2-8	5	25 x 25 x 10	3.0	Vapo	80	0.4	UL/CUL	16	5.5"	12.95	11.49	9.95	8.95
1708481	Sunon	KDE0502PHB3-8 (MS)	5	25 x 25 x 15	1.8	Ball	80	0.4	UL/CUL	16	4"	8.95	7.95	6.95	5.95
1928311	Adda	AD0305LB-K70	5	30 x 30 x 6.8	2.5	Ball	60	0.3	UL/CUL/TUV/CE	30	6"	6.95	6.25	5.59	4.95
2099497	Adda	AD0305MX-K70	5	30 x 30 x 6.8	3.3	Hypro	120	0.6	UL/CSA/TUV/CE	27.9	5.5"	7.95	6.95	6.25	5.59
1951211	Sunon	KDE0503PEV1-8 (MSN)	5	30 x 30 x 6.8	4.9	Vapo	180	0.9	UL/TUV/CE	28	6"	7.95	6.95	6.25	5.59
1951220	Sunon	KDE0503PEB3-8 (MSN)	5	30 x 30 x 6.8	4.9	Ball	180	0.9	UL/TUV/CE	28	6"	8.95	7.95	6.95	5.95
2099489	Adda	AD0305HX-G50	5	30 x 30 x 10	4.2	Hypro	170	0.85	UL/CUL/TUV/CE	30.7	5.5"	8.95	7.95	6.95	5.95
1950534	Sunon	KDE0503PFB1-8V	5	30 x 30 x 10	5.1	Ball	180	0.7	UL/TUV	22.5	5"	8.95	7.95	6.95	5.95
2120031	Sunon	GM0503PEV1-8N.GN	5	30 x 30 x 10	5.5	Vapo	140	0.7	UL/CSA/TUV	23	6"	8.95	7.95	6.95	5.95
2095293	Adda	AD305HB-D50	5	30 x 30 x 15	3.7	Ball	130	0.65	UL/CUL/TUV/CE	22.5	11"	8.95	7.95	6.95	5.95
1708457	Sunon	KDE0504PEB3-8 (MS)	5	40 x 40 x 6.8	3.5	Ball	90	0.45	UL/CUL/TUV	20	6"	8.95	7.95	6.95	5.95
1928361	Adda	AD0405MB-K90 (S)	5	40 x 40 x 6.8	5.5	Ball	90	0.45	UL/TUV/CE	25	6"	8.95	7.95	6.95	5.95
1928353	Adda	AD0405HB-K90	5	40 x 40 x 6.8	6.0	Ball	120	0.6	UL/CUL/TUV/CE	30	5"	9.95	8.95	7.95	6.95
1581249	Sunon	KDE0504PFB3-8	5	40 x 40 x 10	4.6	Ball	70	0.35	UL/CUL	23.5	12"	6.95	6.25	5.59	4.95
196373	Sunon	KD0504PFB2-8	5	40 x 40 x 10	5.5	Ball	90	0.5	UL/CUL	23	12"	8.95	7.95	6.95	5.95
2121295	Adda	AD0405MB-G76	5	40 x 40 x 10	5.7	Ball	110	0.40	UL/CSA/TUV/CE	20	11" <sup>1</sup>	8.95	7.95	6.95	5.95
1928370	Adda	AD0405HS-G70	5	40 x 40 x 10	6.7	Sleeve	190	0.95	UL/CUL/TUV/CE	25	3" w/conn	6.95	6.25	5.59	4.95
1581265	Sunon	KDE0504PFS1-8	5	40 x 40 x 10	7.0	Sleeve	110	0.6	UL/CUL	27	12"	6.95	6.25	5.59	4.95
1951238	Sunon	KDE0504PFB1	5	40 x 40 x 10	7.5	Ball	200	1.0	UL/CE	28	12"	7.95	6.95	6.25	5.59
2100013	Delta	AFB0405LD	5	40 x 40 x 20	5.6	Ball	210	1.05	UL/CSA/DE/CE	25	13" <sup>2</sup>	5.95	4.95	3.95	3.49
1952741	Elina	KDC050420MB	5	40 x 40 x 20	6.8	Ball/Sleeve	210	1.0	UL/CUL/TUV	25.5	12"	7.95	6.95	6.25	5.59
2120057	Sunon	KD0504PKB2(2).GN	5	40 x 40 x 20	7.7	Dual ball	142	0.7	UL/CSA/TUV	22	12"	7.95	6.95	6.25	5.59
1951406	Delta	AFB0405HD-ROO	5	40 x 40 x 20	8.5	Ball	400	2.0	UL/CUL/TUV/CE	33	12" <sup>1</sup>	8.95	7.95	6.95	5.95
2095251	Adda	AD4505MX-K90	5	45 x 45 x 6	7.1	Hypro	120	0.6	CE	25.5	5.5"	8.95	7.95	6.95	5.95
136494	Delta	AFB0505LA	5	51 x 51 x 10	7.4	Ball/Sleeve	80	0.4	UL/CE/CSA/DE	26	11"	6.95	6.25	5.59	4.95
1950500	Sunon	KDE0505PFB1-8	5	51 x 51 x 10	10.2	Ball	170	0.9	UL/TUV	31.5	12"	8.95	7.95	6.95	6.25
136275	Delta	BFB0505L <sup>†</sup>	5	51 x 51 x 15	2.5	Ball	140	0.7	UL/CE/CSA/DE	26.5	12"	9.95	8.95	7.95	6.95
136283	Elina	KDC050515MB	5	51 x 51 x 15	12.7	Ball/Sleeve	380	4.0	UL/CE/CUL/TUV	28	11"	7.95	6.95	5.95	4.95
1809936	Sunon	KD0505PHB2 (GN)	5	51 x 51 x 15	12.7	Ball	180	0.8	UL/CUL/TUV/CE	27.8	12"	9.95	8.95	7.95	6.95
1809944	Sunon	KDE0506PHB3	5	60 x 60 x 15	15.2	Ball	240	1.2	UL/CUL/TUV/CE	26.5	12"	6.95	5.95	5.25	4.95
2081756	Adda	AD0605HB-D71GL	5	60 x 60 x 15	16.6	Ball	370	1.8	UL/CUL/CE	32	6"	6.95	5.95	5.25	4.95
1708431	Sunon	KD0506PHB2	5	60 x 60 x 15	18.5	Ball	380	1.9	UL/CUL/TUV/CE	32	12"	9.95	8.95	7.95	6.95
1951414	Delta	AFB0605HD	5	60 x 60 x 20	16.6	Ball	240	1.2	UL/CUL/TUV/CE	28	12"	8.95	7.95	6.95	6.25
355493	Sunon	KD0506PTS3	5	60 x 60 x 25	15.9	Sleeve	230	1.2	UL/CUL/CE	26.7	6.5" w/conn	5.95	5.25	4.59	3.95
134869	Delta	AFB0605M	5	60 x 60 x 25	16.2	Ball	220	1.1	UL/CE/CSA/TUV	24.5	12"	7.95	6.95	6.25	5.59
1951078	Mechatronics	F6025E05B2-FS	5	60 x 60 x 25	24	Ball	700	3.5	UL/CUL	36	12" <sup>2</sup>	8.95	7.95	6.95	6.25
1951086	Mechatronics	F8025E05B2-FS	5	80 x 80 x 25	46	Ball	800	4.0	UL/CUL	32	12" <sup>2</sup>	9.95	8.95	7.95	6.95
1951094	Mechatronics	E9225M05B2-FS	5	92 x 92 x 25	44	Ball	560	2.8	UL/CUL	32	12" <sup>2</sup>	8.95	7.95	6.95	6.25
1951107	Mechatronics	F1238L05B2-FS	5	120 x 120 x 38	94	Ball	800	4.0	UL/CUL	36	12" <sup>2</sup>	10.95	9.95	8.95	7.95
2095269	Adda	AD2012LX-K70	12	20 x 20 x 6	0.6	Hypro	60	0.72	CE	19.5	5.5"	8.95	7.95	6.95	6.25
2100363	Adda	AD0212LX-K50-LF	12	25 x 25 x 6	1.8	Hypro	60	0.3	UL/CUL/TUV/CE	20.5	5.5"	9.95	8.95	7.95	6.95
2095306	Adda	AD0212MB-K50 (S)	12	25 x 25 x 6	2.4	Ball/Sleeve	90	1.08	UL/CUL/TUV/CE	26	5.5"	11.95	10.95	9.95	8.95
1951641	Adda	AD0212LB-G50 (GL)	12	25 x 25 x 10	1.8	Ball	70	0.84	UL/CUL/CE	15.6	5.5"	9.95	8.95	7.95	6.95
2121316	Adda	AD0212MX-G50GL	12	25 x 25 x 10	2.3	Hypro	80	0.4	UL/CUL/TUV/CE	23.1	5.5"	9.95	8.95	7.95	6.95
1708449	Sunon	KDE1202PFB1-8 (V)	12	25 x 25 x 10	3.1	Ball	83	1.0	UL/CUL	33	6"	10.95	9.95	8.95	7.95
1708465	Sunon	KDE1203PFB2-8 (MS)	12	30 x 30 x 10	4.2	Ball	66	0.8	UL/CUL	25	6"	6.95	5.95	4.95	3.95
212784	Sunon	KDE1203PFB1-8V	12	30 x 30 x 10	5.1	Ball	75	0.9	UL/CUL/TUV/CE/DE	27	4"	6.95	5.95	4.95	3.95
212783	Sunon	KDE1203PFB1-8	12	30 x 30 x 10	5.1	Ball	75	0.9	UL/CUL/TUV/CE/DE	27	5.9"	7.95	6.95	5.95	4.95
1928134	Adda	AD0312HB-D50	12	30 x 30 x 15	4.2	Ball	110	1.3	UL/CUL/TUV/CE	22.5	3" w/conn	5.95	5.25	4.95	3.95
212741	Sunon	KDE1235PFB2-8	12	36 x 36 x 10	4.5	Ball	60	0.8	UL/CUL/TUV/CE/DE	21	5.9"	9.95	8.95	7.95	6.95
212760	Sunon	GM1235PFV1-8	12	36 x 36 x 10	7.0	Vapo	80	1.0	UL/CUL/TUV/CE	28	6"	14.95	13.49	11.95	10.95
1951490	Adda	AD0412HB-K90	12	40 x 40 x 6.8	6.0	Ball/Sleeve	80	1.0	UL/CUL/TUV/CE	30	5.5"	8.95	7.95	7.19	6.49
2099500	Adda	AD0412HB-K96	12	40 x 40 x 6.8	6.0	Ball	80	0.72	UL/CUL/TUV/CE	30	5.5" <sup>1</sup>	8.95	7.95	6.95	6.25

<sup>1</sup> 3 leads; speed sensor

<sup>2</sup> 3 leads; locked rotor protection (These functions are optional, if needed)

<sup>†</sup> Blower

Fans continued on next page

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# DC Brushless Tubeaxial Fans & Blowers

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## DC Brushless Tubeaxial Fans & Blowers (Continued)



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### mm to Inches Conversion Chart

mm	6.8	10	15	20	25	28	30	32	35	38	40	45	51	60	76	80	92	95	97	120	127	150	172
Inches	0.27	0.40	0.60	0.80	1.00	1.10	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.99	3.15	3.63	3.74	3.82	4.69	5.00	5.90	6.77

Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
1950526	Sunon	KD1204PFS3H	12	40 x 40 x 10	4.2	Sleeve	60	0.7	UL/TUV	22	12"	\$5.95	\$5.49	\$4.95	\$4.49
2095314	Adda	AD0412LX-G70	12	40 x 40 x 10	4.7	Hypro	70	0.84	UL/CUL/TUV/CE	14	12"	6.95	6.25	5.59	4.95
210797	Sunon	KD1204PFV3	12	40 x 40 x 10	4.9	Vapo	60	0.6	UL/CUL/TUV/CE	24	12"	6.95	6.25	5.59	4.95
279611	Toyo	T401012VH	12	40 x 40 x 10	5.8	Ball	90	1.1	UL/CUL/TUV/CE	33.5	12"	4.95	4.49	3.95	3.59
1585469	Y.S. Tech	FD1240107B-2N	12	40 x 40 x 10	6.6	Ball	90	1.08	UL/CUL/TUV	29	6"	3.95	3.49	2.95	2.59
1928054	Adda	AD0412HB-G70	12	40 x 40 x 10	6.7	Ball	100	1.2	UL/CUL/TUV/CE	25	2.5" w/conn	5.95	5.35	4.79	4.29
2100380	Adda	AD0412HX-G71-LF	12	40 x 40 x 10	6.7	Hypro	100	1.2	UL/CUL/TUV/CE	25	10"	6.95	5.95	4.95	3.95
290010	Adda	AD0412HB-G70	12	40 x 40 x 10	6.7	Ball	100	1.2	UL/CUL/TUV/CE	25	10" w/conn	9.95	8.95	7.95	6.95
212717	Sunon	KDE1204PFV2.11.MS.AGN	12	40 x 40 x 10	7.0	Vapo	80	1.0	UL/CUL/TUV/CEN/DE	27	12"	6.95	6.25	5.59	4.95
1950139	Sunon	KDE1204PFS2-11	12	40 x 40 x 10	7.0	Sleeve	92	1.1	UL/CUL/TUV/CE	27	12"	5.95	5.25	4.95	3.95
2081924	Sunon	KDE1204PFB2	12	40 x 40 x 10	7.5	Ball	90	1.1	UL/CUL/TUV/CE	30	12"	8.95	7.95	6.95	5.95
189691	Sunon	KD1204PFS1-11.GN	12	40 x 40 x 10	8.0	Sleeve	60	0.7	UL/CUL/TUV/CE	30	12"	7.95	7.19	6.49	5.79
212725	Sunon	KDE1204PFV1	12	40 x 40 x 10	8.3	Vapo	110	1.4	UL/CUL/TUV/CEN/DE	34.4	12"	6.95	6.25	5.59	4.95
1708473	Sunon	KDE1204PFV11.MS.A	12	40 x 40 x 10	9.5	Vapo	150	1.8	UL/CUL/TUV	39	12"	5.95	4.95	4.49	3.95
136178	Adda	AD0412MS-C70	12	40 x 40 x 20	5.0	Sleeve	110	1.32	UL/CSA	23	9"	4.95	4.49	3.95	3.59
1809856	Sunon	GM1204PKV3-A	12	40 x 40 x 20	6.3	Vapo	50	0.6	UL/CSA/TUV	18	12"	6.95	6.25	5.59	4.95
195899	Sunon	KDE1204PKS2	12	40 x 40 x 20	6.5	Sleeve	70	0.9	UL/CSA/TUV	25.5	12"	5.95	5.39	4.79	4.29
279620	Toyo	T402012H	12	40 x 40 x 20	6.7	Ball	70	0.84	UL/CUL/TUV/CE	26.2	12"	6.95	6.25	5.59	4.95
2120065	Sunon	KD1204PKB2(2)GN	12	40 x 40 x 20	7.7	Dual ball	62	0.7	UL/CSA/TUV	22	12"	6.95	6.25	5.59	4.95
687754	Sunon	KDE1204PKSX-8	12	40 x 40 x 20	9.5	Sleeve	90	1.1	UL/CSA	28	11"	6.95	6.25	5.59	4.95
2099518	Adda	AD0412UB-C51	12	40 x 40 x 20	9.9	Ball	180	2.16	UL/CUL/TUV/CE	36.1	11"	7.95	6.95	6.25	5.59
2082100	Sunon	KDE1204PKBX-8	12	40 x 40 x 20	10	Ball	90	1.1	UL/TUV/CE	29.4	4"	7.95	6.95	6.25	5.59
2099841	Delta	EFB0412VHD-R00	12	40 x 40 x 20	10.1	Dual ball	120	1.4	UL/CSA/DE/CE	32.5	12" 2	9.95	8.95	7.95	6.95
1928118	Adda	AD4012HB-C50	12	40 x 40 x 20	10.5	Ball	100	1.2	UL/CUL/TUV/CE	31.9	12"	9.95	8.95	7.95	6.95
1585291	Sunon	GM1204PKVX-A	12	40 x 40 x 20	10.8	Vapo	130	1.6	UL/CUL/CSA	27.5	5"	6.95	6.25	5.59	4.95
2082089	Sanyo Denki	109P0412H302	12	40 x 40 x 28	11.3	Ball	195	2.3	UL/CSA/TUV	37	3.75"	6.95	6.25	5.59	4.95
2095162	Sunon	PMD1204PQBX-A(2)F	12	40 x 40 x 28	23.5	Ball	570	6.8	UL/CE	51.5	3" w/conn 1	12.95	11.49	9.95	8.95
1951246	Sunon	PMD1204PQBX-A(2)	12	40 x 40 x 28	23.5	Ball	570	6.8	UL/CE	51.5	12"	14.95	13.49	11.95	10.95
1951254	Sunon	PMD1204PQBX-A(2)F	12	40 x 40 x 28	23.5	Ball	570	6.8	UL/CE	51.5	12" 1	14.95	13.49	11.95	10.95
1950753	Comair Rotron	CR4512MB-G70	12	45 x 45 x 10	6.9	Ball	70	0.8	UL/CUL/CE/TUV	21.6	12"	6.95	6.25	5.59	4.95
2095322	Adda	AD4512HX-G70	12	45 x 45 x 10	9.1	Hypro	90	1.08	UL/CUL/TUV/CE	27.4	11"	7.95	6.95	6.25	5.59
2100371	Adda	AD0512LX-G70LF	12	51 x 51 x 10	9.0	Hypro	60	0.72	UL/CSA/TUV/CE	20	11"	5.95	5.35	4.79	4.29
1918809	Jamicon	KF0510B1M	12	51 x 51 x 10	9.27	Ball	80	0.8	UL/CUL/TUV/CE	26.6	10.5"	5.95	5.35	4.79	4.29
2095331	Adda	AD0512HX-G70	12	51 x 51 x 10	10.5	Hypro	120	1.4	UL/CUL/TUV/CE	24	11"	5.95	5.35	4.79	4.29
2095349	Adda	AD0512MB-G76	12	51 x 51 x 10	10.5	Ball	120	1.4	UL/CUL/TUV/CE	24	11" 1	7.95	6.95	6.25	5.59
1950446	Sunon	KD1205PFB1(2)H	12	51 x 51 x 10	11.4	Ball	130	1.6	UL/TUV	34.7	12"	7.95	6.95	6.25	5.59
2100419	Adda	AD0512HB-G70-LF	12	51 x 51 x 10	11.8	Ball	90	1.08	UL/CSA/TUV/CE	27	11"	8.95	7.95	6.95	6.25
125006	Nidec	A33999-16 1	12	51 x 51 x 15	4.0	Ball	170	2.04	UL/CE	46	11"	7.95	6.95	5.95	4.95
139601	Adda	AD0512HS-D71	12	51 x 51 x 15	12	Sleeve	100	1.2	UL/CSA/CE	29	5"	6.95	6.25	5.59	4.95
139602	Adda	AD0512HS-D71-R	12	51 x 51 x 15	12	Sleeve	100	1.2	UL/CSA/CE	29	12"	9.95	8.95	7.95	6.95
2099534	Adda	AD5012MX-D71	12	51 x 51 x 15	12.6	Hypro	100	1.2	UL/CUL/TUV/CE	29	5.5"	7.95	6.95	6.25	5.59
1809813	Sunon	GM1205PHV1-AR	12	51 x 51 x 15	17	Vapo	130	1.5	UL/CUL/TUV/CE	33	12" 2	7.95	6.95	6.25	5.59
2095357	Adda	AD0612HB-G70	12	60 x 60 x 10	14.5	Ball	150	1.8	UL/CUL/TUV/CE	32	11"	9.95	8.95	7.95	6.95
1946025	Evercool	EC6010M12CA	12	60 x 60 x 10	15.5	Ball	160	1.9	UL/CE/TUV	30	9" 1	8.95	7.95	6.95	6.25
2115522	Everflow	R126010DU	12	60 x 60 x 10	19.41	Ball	250	3	UL/CE/TUV	37	9" w/ conn 1	8.95	7.95	6.95	6.25
1928046	Adda	AD0612LX-D70GL	12	60 x 60 x 15	12	Hypro	90	1.08	UL/CUL/TUV/CE	27.2	8"	5.95	5.59	4.95	4.49
2078178	Delta	AFB0612MB	12	60 x 60 x 15	13.4	Ball	80	0.96	UL/CUL/TUV/CE	29	12"	7.95	6.95	6.25	5.59
195945	Adda	AD612MS-D71GL	12	60 x 60 x 15	14.2	Sleeve	110	1.32	UL/CSA/TUV/CE	28.8	6"	8.95	7.95	6.95	6.25
249069	Jamicon	JF0615B1H-000-243	12	60 x 60 x 15	15.7	Ball	170	2.04	UL/CUL/TUV/CE	34	12"	9.95	8.95	7.95	6.95
2121308	Adda	AD0612HB-D70GL	12	60 x 60 x 15	16.6	Ball	130	1.56	UL/CSA/TUV/CE	32.4	11" w/ conn	9.95	8.95	7.95	6.95
687771	Sunon	KDE1206PHS1	12	60 x 60 x 15	21	Sleeve	150	1.8	UL/CSA/TUV/CE	36	11"	8.95	7.95	6.95	6.25
1585400	Sunon	KDE1206PHB1	12	60 x 60 x 15	21	Ball	150	1.8	UL/CSA/CE	37.5	11"	10.95	9.95	8.95	7.95
144161	Adda	AD0612LB-C70GL	12	60 x 60 x 20	12.6	Ball	80	1.0	UL/CSA/TUV	22.7	6"	9.95	8.95	7.95	6.95
1928126	Adda	AD0612HB-C70GL	12	60 x 60 x 20	16.3	Ball	160	1.92	UL/CSA/TUV/CE	31	12"	6.95	6.25	5.95	4.95
189595	Sunon	KD1206PKS2	12	60 x 60 x 20	16.5	Sleeve	150	1.8	UL/CSA/TUV/CE	31	12"	5.95	5.49	4.95	3.95
119635	Delta/Fonsan	DFD0612H	12	60 x 60 x 20	17.7	Ball	150	1.3	UL/CE/CSA/VE	30	12"	6.95	6.25	5.59	4.95
2120073	Sunon	KD1206PKB2(2)F.GN	12	60 x 60 x 20	19	Dual ball	88	1.1	UL/CUL/TUV	29	12" 1	6.95	6.25	5.59	4.95
114682	Delta	AFB0612VHD	12	60 x 60 x 20	30	Ball	270	2.4	UL/CE/CSA/VE	39.5	12"	7.95	6.95	5.95	4.95

1 3 leads; speed sensor 2 3 leads; locked rotor protection (These functions are optional, if needed) 1 Blower

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.



# DC Brushless Tubeaxial Fans & Blowers

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## DC Brushless Tubeaxial Fans & Blowers (Continued)



★ 12V Web Code: LBZ



2099446		1810030										1928100		1809995			
Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing					
												1	10	50	100		
2120081	Sunon	KDE1206PTV3.13.MS.AF.GN	12	60 x 60 x 25	16	Vapo	110	0.7	UL/CSA/TUV	21	12" <sup>1</sup>	\$7.95	\$6.95	\$6.25	\$5.59		
1810101	Japan Servo	TUDC12Z4F-022	12	60 x 60 x 25	19	Ball	140	1.8	UL/CSA/TUV	32	5" w/ conn	5.95	5.39	4.79	4.29		
2095197	Delta	DFB0612H	12	60 x 60 x 25	19.4	Ball	120	1.4	UL/CE/CSA/VDE	30	12"	7.95	6.95	6.25	5.59		
102947	Jamicon	JF0625S1H	12	60 x 60 x 25	20.5	Sleeve	230	2.7	UL/CUL/TUV	33.6	12"	7.95	6.95	6.25	5.59		
150422	Jamicon	JF0625B1H	12	60 x 60 x 25	21.4	Ball	230	2.7	UL/CSA/TUV	30.5	10"	8.95	7.95	6.95	6.25		
195911	Sunon	KD1206PTS1AGN	12	60 x 60 x 25	21.7	Sleeve	190	2.3	UL/CSA/TUV	34	12"	9.95	8.95	7.95	6.95		
2099526	Adda	AD0612XB-A74GL	12	60 x 60 x 25	31.4	Ball	380	4.56	UL/CSA/TUV/CE	42.9	12"	7.95	6.95	5.95	4.95		
123941	Nidec	D07R-12TL018	12	70 x 70 x 15	19.8	Ball	80	0.96	UL/CSA	27	23" <sup>2</sup>	10.95	9.95	8.95	7.95		
2125561	AVC	DE07015R12U	12	70 x 70 x 15	43	Hydraulic	700	8.4	UL/CE/TUV	46	8" w/ conn.	11.95	10.95	9.95	8.95		
2099446	Adda	AD7512LB (2A) <sup>†</sup>	12	76 x 76 x 30	6.9	Ball	110	1.32	UL/CUL/TUV/CE	29	15" w/conn. <sup>2</sup>	7.95	6.95	5.95	4.95		
132951	Shicoh	A0815-12HV	12	80 x 80 x 15	18.4	Ball/Sleeve	200	2.4	—	32	12" <sup>1</sup>	5.95	5.49	4.95	3.95		
2099462	Adda	AD0812LB-D70	12	80 x 80 x 15	20	Ball	120	1.44	UL/CSA/TUV/CE	19.6	6" w/conn	6.95	6.25	5.59	4.95		
401269	Delta	AFB0812LB	12	80 x 80 x 15	24.7	Ball	140	1.68	UL/CSA/TUV	27.5	10"	5.95	5.49	4.95	3.95		
1708570	Sunon	KD1208PHB1-AH	12	80 x 80 x 15	35	Ball	240	2.9	UL/CUL/TUV/CE	39.5	12"	10.95	9.95	8.95	7.95		
2095365	Adda	AD0812XX-D71	12	80 x 80 x 15	39.4	Hypro	350	4.2	UL/CSA/TUV/CE	42	11"	8.95	7.95	6.95	5.95		
141921	Adda	AD0812HB-C70	12	80 x 80 x 20	27.3	Ball	240	2.9	UL/CSA/CE	34	12"	10.95	9.95	8.95	7.95		
2081748	Sunon	KDE1208PKV1.13.MS.A	12	80 x 80 x 20	36	Vapo	130	1.6	UL/CUL/TUV/CE	38	12"	10.95	9.95	8.95	7.95		
688597	NMB	3110GL-B4W-B19	12	80 x 80 x 25	24.7	Ball	100	1.2	UL/CSA/TUV/CE	22	7" w/ conn. <sup>1</sup>	5.95	5.35	4.79	4.29		
2125544	Cool Master	A8025-25BB-3BN-PI	12	80 x 80 x 25	30.8	Dual Ball	150	1.8	UL/CSA/TUV/CE	30.6	12" w/conn. <sup>2</sup>	5.95	5.35	4.79	3.95		
1952759	Max Flow	MF8025D1-LSPS	12	80 x 80 x 25	31.1	Sleeve	130	1.56	UL	29	7" w/ conn.	5.95	5.39	4.79	4.29		
123530	Adda	AD0812MS-A70GL	12	80 x 80 x 25	32	Sleeve	150	1.8	UL/CSA/TUV	28.3	12"	7.95	6.95	6.25	5.59		
2125552	Cool Master	BP802512M	12	80 x 80 x 25	33	Ball	160	1.92	UL/CE/UR	29	12" w/conn. <sup>2</sup>	6.95	6.25	5.59	4.95		
1955010	NMB	3110KL-04W-B40	12	80 x 80 x 25	35.3	Ball	200	2.40	UL/CSA/TUV/CE	31	13"	6.95	6.25	5.59	4.95		
2125843	Vastech	RDH8025B	12	80 x 80 x 25	35.7	Ball	170	2.0	UL/CSA/CE	33	11"	6.95	6.25	5.59	4.95		
1950147	Sunon	KD1208PTB2(2)HM	12	80 x 80 x 25	36	Ball	160	2.1	UL/CE/TUV	29	11" <sup>1</sup>	7.95	6.95	6.25	5.59		
1810030	Sanyo Denki	109R0812H4011	12	80 x 80 x 25	36.4	Ball	130	1.56	UL/CSA/TUV	29	12" <sup>1</sup>	6.95	6.25	5.59	4.95		
1537387	Sunon	KD1208PTB213.(2).GN	12	80 x 80 x 25	37	Ball	110	1.3	UL/CUL/TUV/CE	32	11.5" w/ conn.	7.95	6.95	6.25	5.59		
1928038	Adda	AD0812HS-A70GL	12	80 x 80 x 25	38.6	Sleeve	250	3.0	UL/CSA/TUV/CE	34.4	12"	5.95	5.35	4.79	4.29		
1928100	Adda	AD0812HX-A70GL	12	80 x 80 x 25	38.6	Hypro	250	3.0	UL/CSA/TUV/CE	34	12"	5.95	5.35	4.79	4.29		
2078194	Adda	AD0812HS-A73	12	80 x 80 x 25	38.6	Sleeve	250	3.0	UL/CSA/TUV	34.3	12" <sup>1</sup>	6.95	6.25	5.59	4.95		
662661	NMB-MAT	FBA08A12H1BS	12	80 x 80 x 25	39.6	Hypro	173	2.1	UL/CSA/TUV	32	12" <sup>2</sup>	5.95	5.35	4.79	4.29		
2125835	Globe	B01138812H-3M	12	80 x 80 x 25	39.8	Ball	230	2.76	UL/CSA/TUV/CE	32.6	10" w/conn. <sup>1</sup>	6.95	6.25	5.59	4.95		
1585477	Sunon	KD1208PTS1-13	12	80 x 80 x 25	40	Sleeve	160	1.9	UL/CUL/TUV/CE	33	12"	5.95	5.35	4.79	4.49		
1950569	Sunon	KD1208PTS1 H.M	12	80 x 80 x 25	40	Sleeve	160	2.6	UL/CE	33	12" <sup>1</sup>	5.95	5.35	4.79	4.39		
1708490	Sunon	KDE1208PTB1-13.MS(2)A	12	80 x 80 x 25	41	Dual Ball	150	1.8	UL/CUL/TUV/CE	35	12"	7.95	6.95	6.25	5.59		
206181	Sunon	KDE1208PTS1-6	12	80 x 80 x 25	42	Sleeve	220	2.6	UL/CSA/TUV/CE	34	9"	7.95	6.95	6.25	5.59		
355401	ReliaPro	RDH80025B1	12	80 x 80 x 25	42	Ball	230	2.8	UL/CUL/TUV/CE	28.6	12"	8.95	7.95	6.95	6.25		
2081271	Sunon	KDE1208PTB1-6(OCM)	12	80 x 80 x 25	42.5	Ball	220	2.6	UL/CUL/TUV/CE	36.5	12" <sup>1</sup>	5.95	5.35	4.79	4.29		
102955	Sunon	KD1208PTB1-6(OC)	12	80 x 80 x 25	42.5	Ball	220	2.6	UL/CUL/TUV/CE	36.5	3.5"	5.95	5.35	4.79	4.29		
249148	Sunon	KDE1208PTB1-6(OC)	12	80 x 80 x 25	42.5	Ball	220	2.6	UL/CUL/TUV/CE	36.5	12"	7.95	6.95	6.25	5.59		
2120225	Y.S. Tech	FD128025HS	12	80 x 80 x 25	43.7	Sleeve	230	2.76	UL/CSA/TUV	33.5	13"	6.95	6.25	5.59	4.95		
2100401	Adda	AD0812UB-A72GL	12	80 x 80 x 25	43.8	Ball	300	3.6	UL/CUL/TUV/CE	40	11" <sup>2</sup>	8.95	7.95	6.95	6.25		
1918729	Jamicon	JF0825S1SR	12	80 x 80 x 25	45.5	Sleeve	260	3.12	UL/CUL/TUV/CE	35.8	12" w/ conn.	7.95	6.95	6.25	5.59		
421526	Panasonic	FBA08A12U-1AZ	12	80 x 80 x 25	47	Sleeve	360	4.32	UL/CSA	38.2	11"	7.95	6.95	6.25	5.59		
1809995	Sunon	KDE1208PTBX-6A(318)	12	80 x 80 x 25	50.6	Ball	360	4.3	UL/CUL/TUV/CE	40.5	12"	13.95	12.49	10.95	9.95		
2081078	Jamicon	JF0825B1UR	12	80 x 80 x 25	52	Dual Ball	370	4.4	UL/CUL/TUV/CE	40	12"	11.95	10.95	9.95	8.95		
2081692	Y.S. Tech	NFD128125BB-2F	12	80 x 80 x 25	59.2	Dual Ball	450	5.4	UL/CUL/TUV	44	20" w/conn. <sup>1</sup>	12.95	11.49	10.49	9.49		
107406	EBM Papst	8312GHL	12	80 x 80 x 32	39.4	Sleeve	330	4.0	UL/CE/CSA/VDE	43	12"	12.95	11.95	10.49	8.95		
1928089	Adda	AD0912LS-A70GL	12	92 x 92 x 25	32.4	Sleeve	130	1.6	UL/CUL/TUV/CE	23.5	12"	5.95	5.25	4.59	3.95		
1952783	Nidec	TA350DC-M34138-34	12	92 x 92 x 25	35	Ball	160	1.92	UL/CSA	26.4	10" w/conn. <sup>3</sup>	6.95	6.25	5.59	4.95		
1952257	AVC	C9025S12L	12	92 x 92 x 25	37.2	Sleeve	150	1.8	UL/CUL/TUV/CE	26.2	5.5" <sup>1</sup>	7.95	6.95	6.25	5.59		
1928097	Adda	AD0912LX-A70GL	12	92 x 92 x 25	37.9	Hypro	120	1.44	UL/CUL/TUV/CE	26.5	12"	9.95	8.95	7.95	6.95		
1928003	Adda	AD0912MB-A71GL	12	92 x 92 x 25	44.2	Ball	170	2.0	UL/CUL/TUV/CE	32.7	12"	9.95	8.95	7.95	6.95		
1952880	Nidec	TA350DC-M33422-57G4	12	92 x 92 x 25	48	Ball	290	3.48	UL/CSA	35	10" w/conn. <sup>4</sup>	8.95	7.95	6.95	6.25		
154641	Nidec	TA350DC-M33422-16	12	92 x 92 x 25	48	Ball	290	3.5	UL/CSA	43	12"	9.95	8.95	7.95	6.95		
1952935	Sunon	KD1209PTB2-6	12	92 x 92 x 25	48	Dual Ball	500	2.1	UL/CSA/TUV/CE	32	25" w/conn. <sup>4</sup>	10.95	9.95	8.95	7.95		
2115565	Sunon	KD1209PTS1.13.GN	12	92 x 92 x 25	49	Sleeve	160	1.9	UL/CUL/TUV/CE	34	11"	10.95	9.95	8.95	7.95		
190984	Sunon	KD1209PTB1-6A	12	92 x 92 x 25	51	Ball	220	2.6	UL/CSA/TUV	34	12"	10.95	9.95	8.95	7.95		
207061	AVC	C9025S12H	12	92 x 92 x 25	52	Sleeve	160	3.8	UL/CUL/TUV/CE	34	6" w/ conn. <sup>1</sup>	7.95	6.95	5.95	4.95		

<sup>1</sup> 3 leads; speed sensor    <sup>2</sup> 3 leads; locked rotor protection    <sup>3</sup> 4 leads; wired for Dell proprietary PWM circuit control w/ tach (blue), lock rotor (yellow) & fan guard    <sup>4</sup> Temperature sensor  
<sup>†</sup> Blower (These functions are optional, if needed)

Fans continued on next page

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# DC Brushless Tubeaxial Fans & Blowers



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## DC Brushless Tubeaxial Fans & Blowers (Continued)

\* 12V Web Code: LBZ



\* 24V Web Code: QEF

### mm to Inches Conversion Chart

mm	6.8	10	15	20	25	28	30	32	35	38	40	45	51	60	76	80	92	95	97	120	127	150	172
Inches	0.27	0.40	0.60	0.80	1.00	1.10	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.99	3.15	3.63	3.74	3.82	4.69	5.00	5.90	6.77

Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
1952767	NMB	3610KL-04W-B56PS9	12	92 x 92 x 25	54.7	Ball	315	3.8	UL/CSA/TUV/CE	41	7" w/ conn. <sup>5</sup>	\$6.95	\$5.95	\$4.95	\$3.95
1952951	NMB	3610KL-04W-B56PS6	12	92 x 92 x 25	55	Ball	315	3.8	UL/CSA/TUV/CE	41	9" w/ conn. <sup>2</sup>	7.95	6.95	5.95	4.95
102963	Nidec	TA350DC-M33503-55	12	92 x 92 x 25	56	Ball	400	4.8	UL/CSA	45	8"	7.95	6.95	5.95	4.95
1951481	Delta/Dell	AFC0912DE-U4218	12	92 x 92 x 38	160	Dual Ball	2500	30	UL/CSA/TUV/CE	63	10" w/ conn. <sup>3</sup>	12.95	11.49	9.95	8.95
644893	Evercool	EC9733M12S-B <sup>†</sup>	12	97 x 92 x 33	19.4	Sleeve	200	2.4	UL/CE/TUV	30	8" w/ conn.	10.95	9.95	8.95	7.95
2081641	Delta	BFB1012H <sup>†</sup>	12	97 x 94 x 33	25.4	Dual Ball	800	9.6	UL/CSA/VDE/CE	52	11"	12.95	11.49	9.95	8.95
207062	Sony	SFF22C <sup>†</sup>	12	100 x 104 x 35	21	Ball	900	10.8	UL/CSA	51	15" w/ conn. <sup>1</sup>	8.95	7.95	6.95	5.95
174140	Common Wealth	FP108MS3	12	120 x 120 x 25	54	Sleeve	140	1.7	UL/CSA/TUV/CE	25	12"	12.95	11.49	10.49	9.49
689231	Sunon	KDE1212PTS3-6A	12	120 x 120 x 25	67	Sleeve	200	2.4	UL/CUL/TUV/CE	35	12"	9.95	8.95	7.95	6.95
227901	Common Wealth	FP-108M-S1-B	12	120 x 120 x 25	80	Ball	330	4.0	UL/CSA/VDE/CE	42	12"	14.95	13.49	11.95	10.95
363848	Mechatronics	E1225H12B	12	120 x 120 x 25	82	Ball	385	4.62	UL/CUL/TUV	40	3.5"	9.95	8.95	7.95	6.95
1928020	Adda	AD1212HB-A71GL	12	120 x 120 x 25	85.2	Ball	370	4.5	UL/CUL/TUV/CE	39.1	12"	12.95	11.49	9.95	8.95
1952231	Turbofan	TA1225E12BS	12	120 x 120 x 25	93	Ball	580	7.0	UL/CSA/TUV	44	13"	10.95	9.95	8.95	7.95
1928011	Adda	AD1212US-A71GL	12	120 x 120 x 25	98.6	Sleeve	500	6.0	UL/CUL/TUV/CE	39.1	2" w/ conn.	6.95	5.95	4.95	3.95
2081705	T&T	1225H12B-PF1	12	120 x 120 x 25	119	Ball	800	9.6	UL/CUL/TUV/CE	47.5	21" w/ conn. <sup>1</sup>	11.95	10.95	9.95	8.95
2082097	Delta	BFB1212VH <sup>†</sup>	12	120 x 120 x 32	40	Ball	1250	15	UL/CSA/VDE/CE	57	13"	11.95	10.49	8.95	7.95
2082151	Comair Rotron	MC12B3QDN	12	120 x 120 x 32	102	Ball	660	7.9	UL/CSA/CE	47.8	12" <sup>2</sup>	12.95	11.49	9.95	8.95
868109	Comair Rotron	MC12B7	12	120 x 120 x 32	102	Ball	660	7.9	UL/CUL/TUV/CE	47.9	12"	14.95	13.49	11.95	10.95
1580289	EBM Papst	4212/2	12	120 x 120 x 38	97.1	Ball	360	4.3	UL/CSA/VDE/CE	45	12" <sup>1</sup>	39.95	37.95	35.95	33.95
1585389	Japan Servo	CNDC12B4C-016	12	120 x 120 x 38	99	Ball	380	4.6	UL/CSA/TUV	40	12"	8.95	7.95	6.95	5.95
94626	Sunon	KD1212PMB1-6A	12	120 x 120 x 38	108	Ball	570	6.8	UL/CUL/TUV/CE	42	12"	12.95	11.49	10.95	9.95
1954703	Mechatronics	F1238H12B2-FS	12	120 x 120 x 38	112	Ball	440	5.3	UL/TUV	41	10" w/ conn. <sup>2</sup>	11.95	10.95	9.95	8.95
1952791	NMB	4715KL-04W-B46	12	120 x 120 x 38	118	Ball	900	8.4	UL/CSA/TUV/CE	47	6" w/ conn. <sup>2</sup>	7.95	6.95	6.25	5.59
1955028	NMB	4715KL-04W-B49	12	120 x 120 x 38	118	Ball	700	8.4	UL/CSA/TUV/CE	46	12" w/ conn. <sup>1</sup>	9.95	8.95	7.95	6.95
2125860	Comair Rotron	MS12K3	12	120 x 120 x 38	127	Ball	920	11	UL/TUV/CE	53.4	12"	14.95	13.49	11.95	10.95
2120313	Comair Rotron	GDA1238-12BB	12	120 x 120 x 38	128	Ball	600	7.2	UL/TUV/CE	43.5	8" <sup>1</sup>	10.95	9.95	8.95	7.95
2099972	Delta	AFB1212SHE-4F1A	12	120 x 120 x 38	152	Ball	750	9.0	UL/CSA/VDE/CE	55.5	48" w/ conn. <sup>6</sup>	9.95	8.95	7.95	6.95
1537467	Comair Rotron	JQ12B7X	12	172 x 150 x 51	235	Ball	2260	25.2	UL/CSA/TUV/CE	54.3	12" <sup>2</sup>	22.95	19.95	17.95	15.95
1928281	Adda	AD0424HB-G70	24	40 x 40 x 10	6.7	Ball	90	2.16	UL/CUL/TUV/CE	25	7" w/ conn.	11.95	10.95	9.95	8.95
1951473	Delta	AFB0424MD	24	40 x 40 x 20	7.0	Ball	60	1.44	UL/CSA/TUV/CE	30	2" w/ conn.	7.95	6.95	6.25	5.59
100910	Sunon	KDE2404PKV2	24	40 x 40 x 20	7.7	Vapo	33	0.8	UL/CUL/TUV	21	12"	9.95	8.95	7.95	6.95
2100398	Adda	AD0424MB-C50LF	24	40 x 40 x 20	8.5	Ball	70	1.68	UL/CUL/TUV/CE	28.5	12"	9.95	8.95	7.95	6.95
1951502	Adda	AD0424HB-C56	24	40 x 40 x 20	10.1	Ball	90	2.16	UL/CUL/TUV/CE	31.9	12" <sup>1</sup>	10.95	9.95	8.95	7.95
1708422	Sunon	KDE2406PHS3	24	60 x 60 x 15	15	Sleeve	50	1.2	UL/CUL/TUV/CE	31	12"	7.95	6.95	6.25	5.59
687818	Sunon	KDE2406PHB2	24	60 x 60 x 15	18	Ball	56	1.3	UL/CUL/TUV/CE	31	11"	10.95	9.95	8.95	7.95
212652	Delta/Fonsan	DFD0624H	24	60 x 60 x 20	17.7	Ball	100	2.4	UL/CE/CSA/TUV	30	12"	6.95	6.25	5.59	4.95
140661	NMB	2408NL-05W-B60	24	60 x 60 x 20	18.4	Ball	100	2.4	UL/CSA/TUV/CE	31	2" w/ conn.	5.95	4.95	4.49	3.95
1951191	Sunon	KDE2406PKV2MS.AGN	24	60 x 60 x 20	18.5	Vapo	90	1.1	UL/CE	27.5	11"	7.95	6.95	6.25	5.59
1954922	NMB	2410ML-05W-B10	24	60 x 60 x 25	14	Ball	60	1.44	UL/CSA/TUV/CE	23	13"	7.95	6.95	5.59	4.95
189861	Jamicon	JF0625B2M	24	60 x 60 x 25	18	Ball	130	3.1	UL/CSA/TUV/CE	28.5	10"	8.95	7.95	6.95	6.25
1952177	Japan Servo	TUDC24Z4P-029	24	60 x 60 x 25	19	Ball	80	1.8	UL/CSA/TUV	32	12" <sup>2</sup>	7.95	6.95	6.25	5.59
212628	Adda	AD0624HS-A70GL	24	60 x 60 x 25	23.2	Sleeve	150	3.6	UL/CSA/TUV/CE	32.3	17" w/ conn.	6.95	6.25	5.59	4.95
1928337	Adda	AD624HX-A70GL	24	60 x 60 x 25	23.2	Hypro	150	3.6	UL/CSA/TUV/CE	32.3	12"	7.95	6.95	6.25	5.59
2081799	Nidec	TA225DC-M33516-16	24	60 x 60 x 25	25	Ball	180	4.3	UL/CSA	37	12"	7.95	6.95	6.25	5.59
1928071	Adda	AD0624HB-A70GL	24	60 x 60 x 25	25	Ball	150	3.6	UL/CSA/TUV/CE	33.9	12"	8.95	7.95	6.95	6.25
1809848	Sunon	PMD2406PTB1-A	24	60 x 60 x 25	35.8	Ball	220	5.3	UL/CUL/TUV/CE	48.8	12"	9.95	8.95	7.95	6.95
1928345	Adda	AD0824HX-D71L	24	80 x 80 x 15	29	Hypro	130	3.12	UL/CUL/TUV/CE	33.5	12"	9.95	8.95	7.95	6.95
290029	Jamicon	JF0825B2M	24	80 x 80 x 25	31.7	Ball	130	3.1	UL/CUL/TUV/CE	29.3	10"	9.95	8.95	7.95	6.95
136161	Jamicon	JF0825B2H	24	80 x 80 x 25	39.2	Ball	150	3.6	UL/CSA/TUV	31	12"	9.95	8.95	7.95	6.95
1809952	Sunon	KD2408PTB1-13(2)AGN	24	80 x 80 x 25	42.5	Ball	110	2.6	UL/CUL/TUV/CE	36.5	12"	9.95	8.95	7.95	6.95
1928388	Adda	AD0824UB-A72GL	24	80 x 80 x 25	50	Ball	260	6.24	UL/CUL/CE	41	12" <sup>2</sup>	8.95	7.95	6.95	6.25
2126256	Jamicon	JF0825B2UR	24	80 x 80 x 25	52	Dual Ball	210	5.0	UL/CUL/TUV/CE	40	12"	10.95	9.95	8.95	7.95
2126264	Jamicon	JF0825B2TR	24	80 x 80 x 25	58	Dual Ball	270	6.48	UL/CUL/TUV/CE	42	12"	11.95	10.95	9.95	8.95
1580422	EBM Papst	8314/12	24	80 x 80 x 32	31.8	Ball	245	2.5	UL/CUL/CSA/VDE	36	11" w/ conn. <sup>1</sup>	12.95	11.49	9.95	8.95
206965	Sunon	PMD2408PMB2-A	24	80 x 80 x 38	74.5	Ball	300	7.2	UL/CUL/CSA/VDE	52	12"	19.95	17.95	15.95	14.49
1951051	Mechatronics	E9225L24B1-FS	24	92 x 92 x 25	35	Ball	85	2.04	UL/CUL	27	12" <sup>1</sup>	8.95	7.95	6.95	6.25
1708502	Sunon	KDE2409PTS3-6	24	92 x 92 x 25	39	Sleeve	112	2.7	UL/CUL/TUV/CE	27	12"	8.95	7.95	6.95	6.25

<sup>1</sup> 3 leads; speed sensor   <sup>2</sup> 3 leads; locked rotor protection   <sup>3</sup> 4 leads; wired for Dell proprietary PWM circuit control w/ tach (blue), lock rotor (yellow) & fan guard

<sup>5</sup> 5 leads; locked rotor with 2 separate ground if needed   <sup>6</sup> 4 leads; all black tach/speed w/ connector   (These functions are optional, if needed)   <sup>†</sup> Blower

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 189.

# DC Brushless Tubeaxial Fans, Blowers, Power Cords, Guards & Filters



Call for additional OEM PRICING – we carry major manufacturers.

## DC Brushless Tubeaxial Fans & Blowers (Continued)

\* 24V Web Code: QEF



\* 48V Web Code: MAJ



Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
695042	Sunon	KD2409PTB1-13AGN	24	92 x 92 x 25	49	Ball	75	1.8	UL/CE/TUV	35	12"	\$10.95	\$9.95	\$8.95	\$7.95
1928329	Adda	AD0924HX-A70GL	24	92 x 92 x 25	50	Hypro	150	3.6	UL/CUL/TUV/CE	33.7	12"	9.95	8.95	7.95	6.95
1928302	Adda	AD0924US-A71GL	24	92 x 92 x 25	57.8	Sleeve	210	5.04	UL/CUL/TUV/CE	38.6	12"	9.95	8.95	7.95	6.95
104890	EBM Pabst	3314/12	24	92 x 92 x 32	47.1	Ball	140	3.4	UL/CE/TUV	37	12" <sup>1</sup>	11.95	10.95	9.95	8.95
1951465	Delta	FFB0924VHE	24	92 x 92 x 38	85	Ball	280	6.7	UL/CSA/DE/CE	47	12"	12.95	11.49	9.95	8.95
2115557	Sunon	KD2412PTB3-6A.GN	24	120 x 120 x 25	69	Ball	120	2.9	UL/CUL/TUV/CE	35.5	12"	12.95	11.49	9.95	8.95
1809881	Sunon	KD2412PTB1-6A	24	120 x 120 x 25	90	Ball	220	5.3	UL/CUL/TUV/CE	44.5	12"	13.95	12.49	10.95	9.95
1951115	Nidec	TA450DC-A34350-16	24	120 x 120 x 25	92	Ball	180	4.32	UL/CSA	40.4	10"	10.95	9.95	8.95	7.95
2120129	Sunon	PMD2412PTB3-A(2).GN	24	120 x 120 x 25	120	Dual ball	280	6.7	UL/CSA/TUV	48	12"	12.95	11.49	9.95	8.95
153411	Sunon	KD2412PMB2-6A	24	120 x 120 x 38	98	Ball	230	5.5	UL/CSA/TUV	36.5	12"	19.95	17.95	16.49	14.95
694444	Jamicon	JF1238S2MR-R	24	120 x 120 x 38	101.3	Sleeve	220	5.28	UL/CSA/TUV/CE	39.1	9"	13.95	12.49	10.95	9.95
694524	Jamicon	JF1238B2MR-R	24	120 x 120 x 38	101.3	Ball	220	5.28	UL/CSA/TUV/CE	39.1	9"	13.95	12.49	10.95	9.95
107394	EBM Pabst	4294GH	24	120 x 120 x 38	108	Sleeve	220	5.3	UL/CE/CSA/TUV	49	Terminals	12.95	11.49	9.95	8.95
694532	Jamicon	JF1238B2HR-R	24	120 x 120 x 38	118.7	Ball	310	7.44	UL/CSA/TUV/CE	43.8	9.5"	17.95	15.95	14.49	12.95
1809910	Sunon	KD2412PMSX-6A	24	120 x 120 x 38	119	Sleeve	300	7.2	UL/CUL/TUV/CE	45	12"	11.95	10.95	9.95	8.95
297959	Delta	BFB1224HE	24	125 x 126 x 34	27.2	Ball	340	8.1	UL/CE/CSA/TUV	50.5	12"	10.95	9.49	7.95	6.95
212662	EBM Pabst	6424/8-139	24	172 x 150 x 51	241	Ball	750	18	UL/CUL/TUV	57	24" <sup>4</sup>	19.95	17.95	15.95	14.49
212661	EBM Pabst	6224N/BHT	24	172 Round x 51	241.3	Ball	750	18	UL/CE/CSA/DE	55	12" <sup>4</sup>	19.95	17.95	15.95	14.49
212644	Delta	AFB0948L	48	92 x 92 x 25	37	Ball	50	2.44	UL/CSA/TUV	25	12"	12.95	11.49	9.95	8.95
2120137	Sunon	PMD4809PMB3-A(2).GN	48	92 x 92 x 38	91.7	Dual ball	120	5.8	UL/CSA/TUV	50.3	12"	14.95	12.49	10.95	9.95
212653	Delta	BFB1248HH	48	120 x 120 x 32	35.3	Ball	220	10.5	UL/CSA/CE/DE	54	12"	12.95	11.49	9.95	8.95
1952960	Comair Rotron	MC48B6QDNX	48	120 x 120 x 32	102	Ball	180	8.4	UL/CSA/TUV/CE	48	11" w/ conn. <sup>1</sup>	12.95	11.49	9.95	8.95
1951457	Delta	EFB1248HHF	48	120 x 120 x 32	120	Ball	140	6.72	UL/CSA/TUV/CE	50.5	6" w/ conn.	12.95	11.49	9.95	8.95
1952475	Orion	OD1232-48HB	48	120 x 120 x 32	120	Ball	180	8.6	UL/TUV/CE	51	12" <sup>3</sup>	12.95	11.49	9.95	8.95
2120145	Sunon	PMD4812PMB1-A(2).GN	48	120 x 120 x 38	190	Dual ball	400	19.2	UL/CSA/TUV	54	12"	15.95	14.49	12.95	10.49
1951422	Delta	FFB1248HEH-ROO	48	120 x 120 x 38	190	Ball	500	24	UL/CSA/TUV/CE	59	12" w/ conn. <sup>2</sup>	15.95	14.49	12.95	10.49
689063	EBM Pabst	W2G115-AG75-85	48	127 x 127 x 38	155	Ball	310	15	UL/CUL	52	10" <sup>1</sup>	15.95	14.49	12.95	10.49
1954711	Delta	EFB1348HHE-SV06	48	127 x 127 x 38	185	Ball	360	17.28	UL/CSA/DE/CE	55.5	26" <sup>1</sup>	15.95	14.49	12.95	10.49

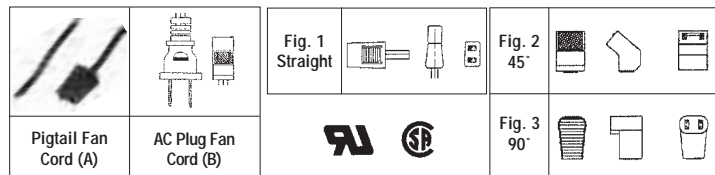
<sup>1</sup> 3 leads; speed sensor    <sup>2</sup> 3 leads; locked rotor protection    <sup>3</sup> 4 Leads wired for Dell proprietary PWM circuit control w/ tach (blue), lock rotor (yellow) & fan guard

<sup>4</sup> 5 leads; locked rotor with 2 separate ground if needed    (These functions are optional, if needed)    † Blower

## DC & AC Plug Fan Power Cords

\* Web Code: GAE

### For Fans w/ Terminal Connection



Part No.	Description	Fig.	Length	1	10	100	250
28564	Straight pigtail fan cord	1A	24"	\$1.49	\$1.25	\$0.99	\$0.89
2076658	Straight pigtail fan cord	1A	36"	1.25	.99	.79	.69
1952548	45° pigtail fan cord	2A	24"	1.25	1.19	1.09	.99
104192	90° pigtail fan cord	3A	24"	1.25	1.19	1.09	.99
1952572	Straight AC plug fan cord	1B	72"	2.95	2.69	2.39	2.19
2117245	45° AC plug fan cord	2B	24"	11.95	10.95	9.95	8.95
1952581	45° AC plug fan cord	2B	72"	2.95	2.69	2.39	2.19

\* Green cord, thermostatic controlled

## Fan Guards & Aluminum Washable Filters

Guards and filters fit all fans. Please match by size dimension.

\* Web Code: UAR

Example: P/N 300557 fan (80mm) matches P/N 31924 metal guard (80mm).

Part No.	mm	Description	Fig.	1	10	50	100
123502	40	Metal (chrome) guard	1	\$0.59	\$0.55	\$0.49	\$0.45
120038	60	Metal (chrome) guard	1	.65	.59	.55	.49
687666	60	Metal (black anodized) guard	2	.85	.79	.75	.69
31924	80	Metal (chrome) guard	1	.69	.65	.59	.55
1928433	80	Metal (black anodized) guard	2	.79	.69	.65	.59
123511	92	Metal (chrome) guard	1	.75	.69	.65	.59
25735	120	Metal (chrome) guard	1	.79	.75	.69	.65
695068	120	Metal (black anodized) guard	2	1.09	.99	.89	.79
695076	127	Metal (chrome) guard	1	1.25	1.09	.99	.89
1811198	172	Metal (chrome) guard	1	1.25	1.09	.99	.89
1952644	40	Plastic guard only	3	.55	.49	.45	.39
1952652	60	Plastic guard only	3	.65	.59	.55	.49
1952290	80	Plastic guard only	3	.69	.59	.55	.49

Part No.	mm	Description	Fig.	1	10	50	100
1952661	92	Plastic guard only	3	\$0.89	\$0.85	\$0.75	\$0.69
1952679	120	Plastic guard only	3	.99	.89	.79	.75
1952687	150	Plastic guard only	3	1.29	1.19	1.09	.99
1952695	40	Plastic guard w/ mesh	4	1.29	1.19	1.09	.99
1952708	60	Plastic guard w/ mesh	4	1.65	1.49	1.39	1.29
138562	80	Plastic guard w/ mesh	4	1.65	1.49	1.39	1.29
229665	92	Plastic guard w/ mesh	4	1.95	1.75	1.49	1.35
196817	120	Plastic guard w/ mesh	4	2.19	2.09	1.95	1.79
1952716	172	Plastic guard w/ mesh	4	2.79	2.49	2.29	2.19
1952724	60	Alum. washable filter	5	1.95	1.75	1.59	1.45
138580	80	Alum. washable filter	5	2.09	1.95	1.75	1.59
1952732	92	Alum. washable filter	5	2.25	1.95	1.75	1.59
130105	120	Alum. washable filter	5	2.95	2.75	2.49	2.25



Fig. 3



Fig. 4



Fig. 5

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

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# AC Tubeaxial Fans

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212600



206309

## 115 & 220VAC Tubeaxial Fans



\* Web Code: ABJ



275793



209365

### mm to Inches Conversion Chart

mm	6.8	10	15	20	25	28	30	32	35	38	40	45	51	60	76	80	92	95	97	120	127	150	172
Inches	0.27	0.40	0.60	0.80	1.00	1.10	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.99	3.15	3.63	3.74	3.82	4.69	5.00	5.90	6.77

Part No.	Manufacturer	Mfr. Part No.	Voltage (VAC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection	Pricing			
												1	10	50	100
213867	Fulltech	UF60D11BWH	115	60 x 60 x 30	10.2	Ball	35	4	UL/CUL/VDE/CE	28	12" leads	\$17.95	\$15.95	\$14.49	\$12.95
2100267	Pelonis	PM8025HA1S	115	80 x 80 x 25	18.8	Sleeve	110	13.2	UL/CUL/CE	26.7	Terminals	12.95	11.49	9.95	8.95
146078	Common Wealth	FP108AX-S1-B (115)	115	80 x 80 x 25	23	Ball	180	14	UL/CE	29	12" leads	15.95	14.49	12.95	11.49
300557	Fulltech	UF80B11SWH	115	80 x 80 x 25	24	Sleeve	140	14	UL/CUL/TUV/CE	35	12" leads	12.95	11.49	9.95	8.95
300258	Fulltech	UF80B11BTH	115	80 x 80 x 25	24	Ball	140	14	UL/CUL/TUV/CE	35	Terminals	13.95	12.49	10.95	9.95
300582	Fulltech	UF80A11SWL	115	80 x 80 x 38	25	Sleeve	110	12	UL/CUL/TUV/CE	32	12" leads	13.95	12.49	10.95	9.95
300303	Fulltech	UF80A11BWL	115	80 x 80 x 38	25	Ball	110	11	UL/CUL/TUV/CE	32	12" leads	15.95	14.49	12.95	11.49
300330	Fulltech	UF80A11BTL	115	80 x 80 x 38	25	Ball	110	12	UL/CUL/TUV/CE	32	Terminals	14.95	13.49	11.95	10.95
300600	Fulltech	UF80A11BWH	115	80 x 80 x 38	29	Ball	120	12	UL/CUL/TUV/CE	36	12" leads	15.95	14.49	12.95	11.49
1950155	Sunon	SF11580A-1083HSL-GN	115	80 x 80 x 38	30	Sleeve	150	13	UL/CE/TUV	33	24" leads	13.95	12.49	10.95	9.95
300389	Fulltech	UF80A11BTH	115	80 x 80 x 38	30	Ball	120	12	UL/CUL/TUV/CE	36	Terminals	15.95	14.49	12.95	11.49
75433	Sunon	SF11592A-1092HSL	115	92 x 92 x 25	36	Sleeve	130	12	UL/CSA/TUV/CE	39	12" leads	12.95	11.49	9.95	8.95
303467	Sunon	SF11592A-1092HBL	115	92 x 92 x 25	37	Ball	110	12	UL/CSA/TUV/CE	40	12" leads	14.95	13.49	11.95	10.95
75460	Sunon	SF11592A-1092HBT-R	115	92 x 92 x 25	37	Ball	110	12	UL/CSA/TUV/CE	40	Terminals	14.95	13.49	11.95	10.95
1819376	NMB	4710PS12TB30A00	115	120 x 120 x 25	70.6	Ball	190	11	UL/CSA/VDE/CE	38	Terminals	12.95	11.49	9.95	8.95
1810048	Sunon	SP101AT-1122HBL-GN	115	120 x 120 x 25	78	Ball	180	18	UL/CUL/TUV/CE	46	12" leads	16.95	14.95	13.49	11.95
124063	Sunon	SP101AT-1122HBT	115	120 x 120 x 25	78	Ball	180	18	CSA/TUV/CE	46	Terminals	16.95	14.95	13.49	11.95
303361	Fulltech	UF12A11BTL1	115	120 x 120 x 38	64	Ball	80	15	UL/CUL/TUV/CE	37	Terminals	14.95	13.49	11.95	10.95
2126070	Adda	AA1281LS-AT-LF	115	120 x 120 x 38	75.6	Sleeve	140	9.2	UL/CUL/TUV/CE	40	Terminals	12.95	11.49	9.95	8.95
1585371	Sunon	SP103A-1123LBL	115	120 x 120 x 38	78	Ball	130	11	UL/CSA/TUV	39	6" w/ conn.	11.95	10.95	9.95	8.95
1918796	Jamicon	KA1238L1B0A0-T	115	120 x 120 x 38	78	Dual Ball	200	12	UL/CUL/CE	38	Terminals	14.95	13.49	11.95	10.95
300792	Fulltech	UF12A11STL	115	120 x 120 x 38	81	Sleeve	150	15	UL/CUL/TUV/CE	38	Terminals	12.95	11.49	10.49	9.49
303483	Fulltech	UF12A11SWL	115	120 x 120 x 38	82	Sleeve	150	12	UL/CUL/TUV/CE	38	12" leads	12.95	11.49	10.49	9.49
2100427	Adda	AA1281HS-AT-LF	115	120 x 120 x 38	83	Sleeve	250	16.3	UL/CSA/TUV/CE	42.2	Terminals	11.95	10.95	9.49	8.95
106586	Common Wealth	FP108-1-S1/T	115	120 x 120 x 38	105	Sleeve	180	12	UL/CSA/CE	47	Terminals	13.95	12.49	10.95	9.95
16935	Common Wealth	FP108-1-S1-B/T	115	120 x 120 x 38	105	Ball	200	17	UL/CSA/TUV/CE	47	Terminals	15.95	14.49	12.95	11.49
212600	Fulltech	UF12A11BWH	115	120 x 120 x 38	106	Ball	190	15	UL/CUL/TUV/CE	46	12" leads	15.95	14.49	12.95	11.49
1707163	Sunon	SP101A-1123HBL-GN	115	120 x 120 x 38	107	Ball	180	18	UL/CSA/TUV	50	12" leads	15.95	14.49	12.95	11.49
206309	Adda	AA1281UB-AT	115	120 x 120 x 38	107	Ball	230	24	UL/CUL/CE	48	Terminals	14.95	13.49	10.95	9.95
275793	Sunon	SP101A-1123HBT	115	120 x 120 x 38	107	Ball	180	18	UL/CUL/CE	50	Terminals	16.95	14.95	13.49	11.95
2125931	Common Wealth	FP108-1 (S-ULTRA)	115	120 x 120 x 38	112	Ball	250	19	UL/CUL/TUV/CE	45	Terminals	15.95	13.95	11.95	10.95
303408	Sunon	SP100A-1123XBL	115	120 x 120 x 38	117	Ball	240	20	UL/CSA/TUV/CE	47	12" leads	17.95	15.95	14.49	12.95
102884	Sunon	SP100A-1123XBT	115	120 x 120 x 38	117	Ball	240	20	UL/CUL/TUV/CE	50	Terminals	17.95	15.95	14.49	12.95
2129588	Common Wealth	FP108-1	115	120 x 120 x 38	120	Ball	250	19	UL/CSA/CE	45	Terminals	17.95	15.95	14.49	12.95
2099454	Adda	AA1751MB-AW	115	172 x 150 x 51	186	Ball	350	29.8	UL/CUL/TUV/CE	50.5	12" leads	29.95	26.95	23.95	21.49
189684	Fulltech	UF15PC12BTH	115	172 x 150 x 51	226	Ball	250	30	CSA	58	Terminals	34.95	32.95	29.95	26.95
212582	Fulltech	UF15PC11BWH	115	172 x 150 x 51	226	Ball	250	30	UL/CUL/TUV/CE	58	12" leads	36.95	34.95	32.95	29.95
1950956	Arctic	KEST-481BW	115	172 x 150 x 51	260	Ball	620	46	UL/CE/TUV	61	12" leads	34.95	32.95	29.95	26.95
1810128	Common Wealth	FP-108AX-S1-B (220)	220	80 x 80 x 25	21	Ball	120	13	UL/CSA/TUV/CE	29	13" leads	16.95	14.95	13.49	11.95
2099471	Adda	AA8382MX-AT	220	80 x 80 x 38	24	Hypno	50	6.8	UL/CUL/TUV/CE	25.3	Terminals	14.95	13.49	11.95	10.95
100918	Sunon	SF23080A/2083HSL	220	80 x 80 x 38	30	Sleeve	60	13.5	UL/CSA/TUV/CE	35	12" leads	17.95	15.95	14.49	12.95
355630	Fulltech	UF-80A23-BTH-R	220	80 x 80 x 38	30	Ball	60	12	UL/CSA/VDE/CE	36	Terminals	16.95	14.95	13.49	11.95
209365	Bi-Sonic	4C-230LB	220	120 x 120 x 38	63	Ball	60	9	TUV/CE	34	10" leads	12.95	11.49	9.95	8.95
302244	Comair Rotron	28023	220	120 x 120 x 38	88	Ball	130	28.6	UL/CSA	50.7	Terminals	12.95	11.49	9.95	8.95
1918753	Jamicon	KA1238H2B01	220	120 x 120 x 38	89	Dual Ball	200	23	UL/CUL/TUV/CE	42	Terminals	12.95	11.49	9.95	8.95
1918761	Jamicon	KA1238H2B12	220	120 x 120 x 38	110	Ball	200	24	UL/CUL/TUV/CE	45	Terminals	12.95	11.49	9.95	8.95
303459	Sunon	DP200A-2123XBL	220	120 x 120 x 38	117	Ball	120	21	UL/CSA/TUV/CE	50	12" leads	15.95	14.49	12.95	11.49
1585338	Sunon	A2123-HBT	220	120 x 120 x 38	117	Ball	120	20	UL/CUL/TUV	50	Terminals	12.95	11.49	9.95	8.95
102892	Sunon	DP200A-2123XBT	220	120 x 120 x 38	117	Ball	120	21	UL/CSA/TUV/CE	50	Terminals	17.95	15.95	14.49	12.95
1809872	Sunon	A2175-HBT	220	172 x 150 x 51	239	Ball	110	25	UL/TUV/CE	51	Terminals	29.95	26.95	23.95	19.95
1950964	Arctic	KEST-482BW	220	172 x 150 x 51	256	Ball	400	58	UL/TUV/CE	58	12" leads	32.95	29.95	26.95	23.95

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RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

# AC-to-AC & AC-to-DC Regulated Switching Wall Adapters



## AC-to-AC Wall Adapters

Input: 120VAC @ 60Hz



★ Web Code: ABQ

We specialize in Wall Adapters – Call for additional OEM PRICING.  
We are happy to change any listed DC wall adapter power plug to a connector of your choice (see pg 120) for just \$2.50 each. A 100 pc. minimum order applies.

Part No.	Manufacturer	Product No.	Output Rating		Output Connector ID x OD mm Female/Male	Size (H" x W" x D")	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VAC)	Current (mA)							1	10	50	100
2082521	Atlinks	5-2634	5	400	2.1mm x 5.5mm right angle F	2.0 x 1.4 x 1.3	White	6'	0.4	UL/CSA	\$3.95	\$3.59	\$3.25	\$2.95
2082530	Atlinks	5-2633	5	400	2.1mm x 5.5mm right angle F	2.0 x 1.4 x 1.3	Black	6'	0.4	UL/CSA	4.95	4.49	3.95	3.59
249017	ReliaPro	ACU070150	7	1500	2.5mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CSA	9.95	8.95	7.95	7.29
100061	ReliaPro	ACU090050	9	500	2.1mm x 5.5mm F	2.7 x 1.9 x 1.7	Black	6'	0.6	UL/CUL	7.95	7.29	6.59	5.95
1950921	ITI	AM-9700ALF	9	700	Screw terminals	2.8 x 2.0 x 1.7	White	—	0.6	UL	4.95	4.49	3.95	3.59
236814	ReliaPro	ACU090080	9	800	3.5mm M	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	7.95	6.95	6.25	5.59
1581281	OEM	AA-091A	9	1000	2.1mm x 5.5mm F	2.2 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	6.95	6.25	5.59	4.95
102234	ReliaPro	ACU090100Z8182	9	1000	2.1mm x 5.5mm F	3.2 x 2.2 x 1.9	Black	6'	0.6	UL/CSA	8.95	7.95	7.29	6.49
1586154	OEM	AA091A	9	1000	2.5mm x 5.5mm F	2.2 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	7.95	6.95	6.25	5.59
157041	ReliaPro	ACU090100E8942	9	1000	2.5mm x 5.5mm F	2.1 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	8.95	7.95	7.29	6.49
112336	ReliaPro	ACU090150	9	1500	2.5mm x 5.5mm F	2.5 x 2.2 x 2.0	Black	6'	0.9	UL	10.95	9.95	8.95	7.95
688634	Arndt	PP-1012-A	10	1200	2.5mm x 5.5mm F	3.5 x 2.5 x 1.9	Black	6'	1.3	UL	7.95	6.95	6.25	5.59
2076543	Radio Shack	15-1963	12	400	2.1mm x 5.5mm F	2.6 x 1.7 x 1.6	Black	6'	0.6	UL/CSA	5.95	5.35	4.79	4.29
101258	ReliaPro	ACU120050	12	500	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	6.95	6.25	5.59	4.95
2076666	CIC	48A12-500Q	12	500	2.5mm x 5.5mm right angle F	3.3 x 2.6 x 2.0	Black	6'	1.0	CSA	4.95	4.49	3.95	3.59
10081	ReliaPro	ACU120100J0920	12	1000	2.1mm x 5.5mm F	2.6 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	9.95	8.95	7.95	7.29
100167	ReliaPro	A411201000U	12	1000	2.5mm x 5.5mm F	3.2 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	9.95	8.95	7.95	7.29
10428	ReliaPro	ACU120100Z9121	12	1000	3.5mm M	2.6 x 2.4 x 2.0	Black	6'	0.6	UL/CUL	9.95	8.95	7.95	7.29
167151	ReliaPro	ADU120150	12	1500	2.1mm x 5.5mm F	3.4 x 2.7 x 2.2	Black	6'	1.5	UL/CUL	10.95	9.95	8.95	7.95
307838	ReliaPro	ADU120160H4120	12	1600	2.5mm x 5.5mm F	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	11.95	10.95	9.95	8.95
153761	ReliaPro	ADU120160C2521	12	1600	3.5mm M	2.5 x 2.2 x 1.9	Black	6'	0.9	UL	10.95	9.95	8.95	7.95
206404	Arndt	MGT1220	12	1670	Screw terminals with green LED	3.2 x 2.2 x 1.9	White	—	0.9	UL/CSA	9.95	8.95	7.95	7.29
2082564	ReliaPro	GPU1355000	13.5	5000	2.1mm x 5.5mm F (Table-Top style)	4.7 x 3.2 x 2.5	Black	6'	2.4	—	22.95	20.49	18.95	16.95
171408	ReliaPro	ACU140050	14	500	2.1mm x 5.5mm F	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	9.95	8.95	7.95	6.95
318684	Horizon	ACU140085	14	850	2.5mm x 5.5mm right angle F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	12.95	11.49	9.95	8.95
100108	ReliaPro	ADU160100	16	1000	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	10.95	9.95	8.95	7.95
163053	ReliaPro	ADU160110	16	1100	2.5mm x 5.5mm F	3.2 x 2.3 x 1.8	Black	6'	1.1	UL/CSA	10.95	9.95	8.95	7.95
176604	ReliaPro	BHU160400	16	4000	2.1mm x 5.5mm F (Table-Top style)	4.4 x 3.1 x 2.5	Black	6'/6'	2.8	—	19.95	17.95	15.95	13.95
2082142	Ault	308-2018	18	900	Screw terminals	1.88 x 2.18 x 1.95	Beige	—	0.7	UL	8.95	7.95	6.95	5.95
121216	ReliaPro	ADU180100	18	1000	2.1mm x 5.5mm F	3.1 x 2.7 x 1.9	Black	6'	1.1	UL/CUL	10.95	9.95	8.95	7.95
185439	ReliaPro	AFU180185	18	1850	2.1mm x 5.5mm right angle F	3.3 x 2.7 x 2.2	Black	6'	1.7	—	11.95	10.95	9.95	8.95
2076631	Ault	T57-182200	18	2200	2.1mm x 5.5mm F	3.2 x 2.6 x 2.2	Black	5'6"	1.2	UL/CSA	11.95	10.95	9.95	8.95
87581	ReliaPro	ADU240050	24	500	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	8.95	7.95	7.29	6.49
206439	Arndt	MGT2420	24	830	Screw terminals with green LED	3.2 x 2.2 x 1.9	White	—	0.9	UL/CSA	10.95	9.95	8.95	7.95
140599	ReliaPro	ADU240100D5531	24	1000	2.1mm x 5.5mm F	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	10.95	9.95	8.95	7.95
10102	ReliaPro	ADU240100E0461	24	1000	3.5mm M	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	10.95	9.95	8.95	7.95
2100195	ReliaPro	GPU572401500WA00	24	1500	2.1mm x 5.5mm F	3.3 x 2.6 x 2.3	Black	6'	1.7	UL/CUL	14.95	13.49	11.95	10.95



## AC-to-DC "Slim Line" Regulated Switching Wall Adapters

Output connector: 2.1mm x 5.5mm F2 (center positive)

Compact in size and lightweight, they are the perfect power solution in all those applications where space is critical. And their high efficiency satisfies requirements for minimizing power losses. You no longer have to deal with traditional wall adapters that block unused outlets in wall plates and power strips/surge protectors.

- 2-wire AC input
- Output cord length: 6'
- Input voltage: 100 – 240VAC @ 47-63Hz
- Color: black
- One-year warranty



★ Web Code: CBQ



We'll Brand the Adapters  
With Your Company Name  
Call 1-800-831-4242 for Details



CEC Equivalents Available Below

Choose from 2 Models!		Output Rating		Size (H"xW"xD")	Wt. (lbs.)	Pricing			
Non-CEC P/N	CEC Part No.	Volt (VDC)	Curr. (mA)			1	10	50	100
—	251565	3.3	1500	2.5x1.1x1.7	0.2	\$11.95	\$10.95	\$9.49	\$8.49
—	251600	3.3	2500	2.9x1.1x1.7	0.3	12.95	11.49	9.95	8.95
—	252701	5	500	2.9x1.1x1.7	0.3	10.95	9.95	8.95	7.95
—	252720	5	1000	2.5x1.1x1.7	0.2	12.95	11.49	9.95	8.95
—	252728	5	1500	2.5x1.1x1.7	0.2	13.95	12.49	10.95	9.95
—	252736	5	2500	2.9x1.3x2.2	0.3	14.95	13.49	11.95	10.49
2082222	—	5	3000	2.9x1.3x2.2	0.3	14.95	12.95	10.95	8.95
—	252753	9	500	2.5x1.1x1.7	0.2	11.95	10.95	9.95	8.95
—	1950841	9	1000	2.5x1.1x1.7	0.2	13.95	12.49	10.95	9.95
—	252779	9	1200	2.9x1.3x2.2	0.3	13.95	12.49	10.95	9.95
—	252786	9	1500	2.9x1.3x2.2	0.3	15.95	14.49	12.95	11.49

✓ CEC equivalent available    ✓ CEC

Choose from 2 Models!		Output Rating		Size (H"xW"xD")	Wt. (lbs.)	Pricing			
Non-CEC P/N	CEC Part No.	Volt (VDC)	Curr. (mA)			1	10	50	100
252794	252795	12	250	2.5x1.1x1.7	0.2	\$8.95	\$7.95	\$6.95	\$6.25
—	252808	12	500	2.5x1.1x1.7	0.2	10.95	9.95	8.95	7.95
—	252816	12	600	2.5x1.1x1.7	0.2	9.95	8.95	7.95	6.95
—	252824	12	1000	2.9x1.3x2.2	0.3	12.95	11.49	9.95	8.95
—	252833	12	1250	2.9x1.3x2.2	0.3	13.95	12.49	10.95	9.95
—	254757	15	800	2.9x1.3x2.2	0.2	12.95	11.49	10.49	9.49
—	252904	15	1000	2.9x1.3x2.2	0.3	13.95	12.49	10.95	9.95
—	252858	24	250	2.5x1.1x1.7	0.2	9.95	8.95	7.95	6.95
—	252866	24	500	2.9x1.3x2.2	0.3	11.95	10.95	9.95	8.95
—	2076341	24	630	2.9x1.3x2.2	0.3	12.95	11.49	10.49	9.49

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



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# AC-to-DC Regulated Switching Wall Adapters

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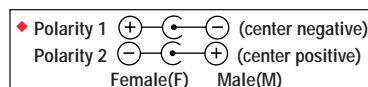
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## AC-to-DC Regulated Switching Wall Adapters

We specialize in Wall Adapters – Call for additional OEM PRICING.

★ Web Code: CDZ



We are happy to change any listed DC wall adapter power plug to a connector of your choice (see pg 120) for just \$2.50 each. A 100 pc. minimum order applies.



Female Right Angle



Screw Terminals



1954199

Part No.	Manufacturer	Product No.	Output Volt. (VDC)	Current (mA)	Output Connector ID x OD mm Female/Male; Polarity ◆	Input VAC @ Hz	Size (H" x W" x D")	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
												1	10	50	100
2126125	OEM	ADS0051-W050080 *	5	800	2.1mm x 5.5mm F 2	100-240@50-60	1.9 x 1.6 x 0.9	Black	6'	0.1	UL/CUL/CE/CEC	\$7.95	\$6.95	\$6.25	\$5.95
1940660	Mean Well	GS06U1P1J *	5	1000	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.3 x 1.9	Black	6'	0.2	UL/CUL/CEC	11.95	10.95	9.95	8.95
1950981	Philips	AY3192/17	5	2000	1.7mm x 4.0mm F 2	100-240@50-60	3.1 x 1.4 x 1.3	Black	6'	0.3	UL/CUL	10.95	9.95	8.95	7.95
157340	D-Link	AF1205B	5	2000	2.1mm x 5.5mm right angle F 2	100-120@50-60	2.4 x 1.4 x 1.1	Black	6'	0.3	UL/CUL/TUV	7.95	6.95	5.49	3.95
210894	ReliaPro	SYS1193-1005 *	5	2000	2.1mm x 5.5mm F 2	100-240@47-63	2.9 x 1.4 x 2.2	Black	6'	0.2	UL/CUL	12.95	11.49	10.49	9.49
1940740	Mean Well	GS12U05P1I	5	2000	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	4'	0.3	UL/CUL/CEC	12.95	11.49	10.49	9.49
189190	Interex	EPA101MU-05B	5	2000	2.5mm x 5.5mm F 1	100-240@50-60	3.2 x 2.8 x 1.3	Black	6'	0.4	UL/CUL	12.95	11.49	10.49	9.49
1954199	Mean Well	GS15U-1P1J *	5	2400	2.1mm x 5.5mm F 2	90-264@47-63	2.8 x 1.3 x 2.0	Black	6'	0.4	UL/CUL/CEC	14.95	13.49	11.95	10.95
689864	ReliaPro	DSA-0151A-05	5	2400	2.5mm x 5.5mm right angle F 2	100-240@50-60	3.2 x 2.1 x 1.4	Black	6'	0.5	UL/CUL	14.95	13.95	12.95	11.95
1952863	Mean Well	GS18U05-P1J	5	3000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	4'	0.5	UL/CUL/CEC	15.95	14.95	13.95	12.95
379623	Mean Well	GS25U05-P1J	5	4000	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	15.95	14.95	13.95	12.95
2082011	Friwo	MPA3U	6	400	2.1mm x 5.5mm right angle F 2	100-240@50-60	2.8 x 2.0 x 0.7	Black	6'	0.3	UL/CUL	5.95	5.49	4.95	3.95
2095429	Phihong	PSMIIR-060	6	1660	2.1mm x 5.5mm F 2	100-240@50-60	2.8 x 1.8 x 1.2	Black	6'	0.3	UL/CUL/CE	14.95	13.49	11.95	10.95
1918702	Globtek	GT-41052-1506 †	6	2500	2.5mm x 5.5mm right angle F 2	100-240@50-60	2.9 x 1.7 x 1.5	Black	6'	0.5	UL/CUL/CE	22.95	19.95	17.95	15.95
1940678	Mean Well	GS06U-11P1J *	7.5	800	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.3 x 1.9	Black	6'	0.2	UL/CUL/CEC	11.95	10.95	9.95	8.95
1940758	Mean Well	GS12U07/P1I	7.5	1600	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	6'	0.3	UL/CUL/CEC	12.95	11.49	10.49	9.49
380008	Mean Well	ES25U07-P1J	7.5	2930	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.95	13.49	11.95	10.95
380332	Mean Well	ES25U07-P1M	7.5	2930	2.5mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	15.95	14.49	12.95	11.95
1940686	Mean Well	GS06U-2P1J *	9	660	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.3 x 1.9	Black	6'	0.2	UL/CUL/CEC	11.95	10.95	9.95	8.95
2099850	Ault	HES12-090130	9	1300	2.1mm x 5.5mm F 2	100-240@50-60	2.4 x 1.8 x 1.3	Black	6'	0.3	UL/CUL/CE	11.95	10.95	9.95	8.95
1940766	Mean Well	GS12U09-P1I	9	1330	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	6'	0.3	UL/CUL	12.95	11.49	10.49	9.49
1952847	Mean Well	GS18U09-P1J	9	2000	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	15.95	14.95	13.95	12.95
380140	Mean Well	GS25U09-P1J	9	2780	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	17.95	15.95	14.49	12.95
2121578	ReliaPro	ST-12500	12	500	Screw terminals	100-240@50-60	3.8 x 2.1 x 1.6	Black	—	0.3	UL/CUL/CEC	9.95	8.95	7.95	6.95
1940694	Mean Well	GS06U-3P1J *	12	500	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.3 x 1.9	Black	6'	0.2	UL/CUL/CE	11.95	10.95	9.95	8.95
1955036	Arndt	26092 ‡	12	700	2.1mm x 5.5mm F 2	95-240@47-63	4.0 x 2.3 x 1.1	Black	5.5'	0.4	UL/CUL	10.95	9.95	8.95	6.95
2121586	ReliaPro	ST-121A	12	1000	Screw terminals	100-240@50-60	3.8 x 2.1 x 1.6	Black	—	0.3	UL/CUL/CEC	11.95	10.95	9.95	8.95
1940774	Mean Well	GS12U12-P1I	12	1000	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	6'	0.3	UL/CUL/CEC	12.95	11.49	10.49	9.49
159354	Group West	TRC-12-1200	12	1200	2.1mm x 5.5mm F 2	100-240@50-60	3.0 x 1.9 x 1.0	Black	6'	0.2	UL/CUL/CE	10.95	9.95	8.95	7.95
1954623	Dee Van	DSA-0151A-12	12	1250	2.1mm x 5.5mm F 2	100-120@50-60	3.1 x 2.1 x 1.4	Black	6'	0.5	UL/CUL	11.95	10.95	9.95	8.95
1954201	Mean Well	GS15U-3P1J *	12	1250	2.1mm x 5.5mm F 2	90-264@47-63	2.8 x 1.3 x 2.0	Black	6'	0.4	UL/CUL/CE	15.95	14.49	12.95	11.49
2126002	ITE Power	S018BU1200150	12	1500	2.1mm x 5.5mm F 2	100-240@50-60	2.9 x 1.7 x 1.2	Black	6'	0.3	UL/CUL	12.95	11.49	9.95	8.95
1952855	Mean Well	GS18U12-P1J	12	1500	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.2	UL/CUL/CE/CEC	15.95	14.95	13.95	12.95
2082134	ReliaPro	ST-122A	12	2000	Screw terminals	100-240@50-60	3.8 x 2.1 x 1.6	Black	—	0.4	UL/CUL/CEC	14.95	13.49	11.95	10.95
1950497	ReliaPro	SYS1308-2412 *	12	2000	2.1mm x 5.5mm F 2	100-240@50-60	2.9 x 1.3 x 1.7	Black	6'	0.4	UL/CUL/CE	15.95	14.49	12.95	11.49
380156	Mean Well	GS25U12-P1J	12	2080	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE/CEC	16.49	14.95	13.49	12.49
1940707	Mean Well	GS06U-4P1J *	15	400	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.3 x 1.9	Black	6'	0.2	UL/CUL/CEC	11.95	10.95	9.95	8.95
1952871	Mean Well	GS18U15-P1J	15	1200	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.4	Black	6'	0.4	UL/CUL/CE/CEC	15.95	14.95	13.95	12.95
380173	Mean Well	GS25U15-P1J	15	1670	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	16.49	14.95	13.49	12.49
1940715	Mean Well	GS06U-5P1J *	18	330	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.3 x 1.9	Black	6'	0.2	UL/CUL/CEC	11.95	10.95	9.95	8.95
1940791	Mean Well	GS12U18-P1I	18	670	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	6'	0.3	UL/CUL/CEC	12.95	11.49	10.49	9.49
380191	Mean Well	GS25U18-P1J	18	1380	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 1.2 x 1.3	Black	6'	0.5	UL/CUL/CEC	16.49	14.95	13.49	12.49
1940803	Mean Well	GS12U24-P1I	24	500	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	6'	0.3	UL/CUL/CEC	12.95	11.49	10.49	9.49
1952898	Mean Well	GS18U24-P1J	24	750	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	15.95	14.95	13.95	12.95
2121594	ReliaPro	ST-241A	24	1000	Screw terminals	100-240@50-60	3.8 x 2.1 x 1.6	Black	—	0.3	UL/CUL/CEC	14.95	13.49	11.95	10.95
380202	Mean Well	GS25U24-P1J	24	1040	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	16.49	14.95	13.49	12.49
380220	Mean Well	GS25U28-P1J	28	890	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.6	UL/CUL/CEC	16.49	14.95	13.49	12.49
380412	Mean Well	ES25U36-P1M	36	690	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	16.49	14.95	13.49	12.49
380244	Mean Well	GS25U48-P1J	48	520	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	16.49	14.95	13.49	12.49

\* Slimline package

† Includes 4 each interchangeable plug kit

‡ With light indicator

✓ CEC equivalent available

• CEC

### JAMECO ReliaPro 3-Prong Wall Adapter Enclosure

- 3-prong power plug and cable strain relief
- Material: noryl
- Color: black

Part No.	Style	Size (H x W x D)	1	10	100
115052	Non-vented	3.4" x 2.7" x 2.3"	\$2.25	\$1.95	\$1.75



### Looking for a Different Output Connector?

We are happy to change any listed DC wall adapter power plug to a connector of your choice (see pg 120) for just \$2.50 each. A 100 pc. minimum order applies.

• RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 189.



## Energy Star Worldwide Interchangeable AC-to-DC Regulated Switching Wall Adapters

Meets US and European Energy Star compliance. Approved for European high-efficiency power applications.

- Field changeable AC Plug Clips (sold separately, see below)
- Input voltage: 90-264VAC @ 47-63Hz
- Output connector: 2.1mm x 5.5mm female center positive; except P/N 1918702: 2.5mm x 5.5mm female right angle center positive
- Load regulation: ±5%
- Class B EMI
- Color: black
- Applications: wireless communications, portable equipment, digital camera, peripherals and networking



★ Web Code: NBH



Shown w/o AC Plug Clip  
AC Plug Clips Not Included

Wall Adapters (AC Plug Clip required, not included)

Part No.	Manufacturer	Mfr. Part No.	Output Volt. (VDC)	Current (A)	Power (W)	Ripple (mVp-p)	Line Regulation	Efficiency (%)	Dimensions (L" x W" x H")	Pricing			
										1	10	50	100
1950761	Phihong	PSA05R-050PA	5	1.0	5	50	±1%	60 - 75	2.8 x 1.8 x 1.2	\$5.95	\$5.49	\$4.95	\$4.49
2082302	Mean Well	GE12105-P1J	5	2.0	10	50	±5%	70	2.8 x 1.6 x 1.5	14.95	13.49	11.95	10.95
2095429	Phihong	PSMIIR-060	6	1.66	10	100	±5%	73	2.8 x 1.8 x 1.2	14.95	13.49	11.95	10.95
1918702	Globtek	GT-41052-1506	6	2.5	15	100	±1%	76	2.9 x 1.7 x 1.5	22.95	19.95	17.95	15.95
2082311	Mean Well	GE18109-P1J	9	2.0	18	100	±5%	75	3.2 x 1.7 x 1.6	16.95	15.49	13.95	12.95
2108656	Phihong	PSC12R-120	12	1.0	12	240	±5%	78	2.8 x 1.8 x 1.2	14.95	13.49	11.95	10.95
2100179	Phihong	PSAA20R-120R	12	1.67	20	120	±5%	81	2.8 x 2.0 x 1.3	19.95	18.95	16.95	15.95
2082329	Phihong	PSC30R-120	12	2.5	30	180	±1%	80	3.8 x 2.1 x 1.2	23.95	21.49	18.95	16.95
2114423	APS	PA1040-120-1	12	3.33	40	120	±1%	75	4.3 x 2.1 x 1.3	24.95	22.49	20.49	17.95
2114458	APS	PA1050-120-1	12	4.16	50	120	±1%	75	4.3 x 2.1 x 1.3	24.95	22.49	20.49	17.95
2082337	Mean Well	GE12115-P1J	15	0.8	12	150	±3%	76	2.8 x 1.6 x 1.5	13.95	12.49	10.95	9.95
2082345	Mean Well	GE12124-P1J	24	0.63	15	240	±3%	80	2.8 x 1.6 x 1.5	13.95	12.49	10.95	9.95
2114431	APS	PA1040-240-1	24	1.67	40	240	±1%	75	4.3 x 2.1 x 1.3	25.95	23.49	20.95	17.95
2114466	APS	PA1050-240-1	24	2.08	50	240	±1%	75	4.3 x 2.1 x 1.3	25.95	23.49	20.95	17.95
2114440	APS	PA1040-480-1	48	0.83	40	480	±1%	75	4.3 x 2.1 x 1.3	25.95	23.49	20.95	17.95

† Comes with USA AC plug clip (RPA) # 2.5mm x 5.5mm female right angle center positive plug \* Kit includes US, UK, EU, AUS plugs

Phihong AC Plug Clips (sold separately, required for above adapters)

Part No.	Mfr. P/N	Description (see above for photos)	1	10	50	100
229155	RPA	USA AC plug only	\$ .69	\$ .65	\$ .59	\$ .55
229163	RPE	European AC plug only	.69	.65	.59	.55
229171	RPK	United Kingdom AC plug only	1.05	.99	.95	.89
2081422	RPS	Australia AC plug only	1.75	1.69	1.65	1.59
229181	RPKIT	Kit includes RPA/RPE/RPK/RPS clips (4)	3.49	3.29	3.19	2.95

Mean Well AC Plug Clips (sold separately, required for above adapters)

Part No.	Mfr. P/N	Description (see above for photos)	1	10	50	100
2082353	AC-Plug-US	USA AC plug only	\$ .69	\$ .65	\$ .59	\$ .55
2082361	AC-Plug-EU	European AC plug only	.89	.85	.79	.75
2082370	AC-Plug-UK	United Kingdom AC plug only	1.09	1.05	.99	.95
2082388	AC-Plug-AU	Australia AC plug only	1.75	1.69	1.65	1.59
2082396	AC-Plug-MIX	Kit includes US, EU, UK & AU clips (4)	3.49	3.29	3.19	2.95



## AC-to-DC Regulated Linear Wall Adapters

We specialize in Wall Adapters – Call for additional OEM PRICING.

★ Web Code: WAZ

Part No.	Manufacturer	Product No.	Output Rating		Output Connector ID x OD mm Female/Male; Polarity ◆	Input VAC @ Hz	Size (H" x W" x D")	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)								1	10	50	100
164101	ReliaPro	GPU410500	5	500	2.1mm x 5.5mm F 2	120@60	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	\$9.95	\$8.95	\$7.95	\$6.95
220935	ReliaPro	DDU050060	5	600	2.1mm x 5.5mm F 1	120@60	2.7 x 2.2 x 1.9	Black	6'	0.8	UL/CUL	10.95	9.95	8.95	7.95
319986	DVE	DV-580R	5	800	2.5mm x 5.5mm F 2	120@60	3.2 x 2.2 x 2.0	Black	6'	1.0	UL/CUL	10.95	9.95	8.95	7.95
2081609	Condor	RWP480505	5	1000	2.1mm x 5.5mm F 2	120@60	3.2 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	10.95	9.95	8.95	7.95
1953612	ReliaPro	DBU0501000	5	1000	2.1mm x 5.5mm F 2	120@60	3.3 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	12.95	11.49	9.95	8.95
168605	ReliaPro	DBU0501000	5	1000	2.5mm x 5.5mm F 2	120@60	3.3 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	12.95	11.49	9.95	8.95
681571	ITE	RWP480505-2	5	1000	2.5mm x 5.5mm right angle F 2	120@60	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CUL	12.95	11.49	9.95	8.95
1919220	Frivo	FE4823	5	1200	2.5mm x 5.5mm F 2	120@60	3.5 x 2.4 x 1.9	Black	6'	1.2	UL/CUL	14.95	13.49	11.95	10.95
190512	ReliaPro	DBU60020-H3570	6	200	2.1mm x 5.5mm F 2	120@60	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	9.95	8.95	7.95	6.95
283573	ReliaPro	ADR-6V500MA-2.1	6	500	2.1mm x 5.5mm F 2	120@60	3.1 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	10.95	9.95	8.95	7.95
1953701	ReliaPro	ADR-6V500MA-2.5	6	500	2.5mm x 5.5mm F 2	120@60	3.1 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	9.95	8.95	7.95	6.95
1953719	ReliaPro	DBU0601000	6	1000	2.1mm x 5.5mm F 2	120@60	3.2 x 2.3 x 2.0	Black	6'	1.3	UL/CSA	12.95	11.49	9.95	8.95
190529	ReliaPro	AD9123	9	250	2.5mm x 5.5mm right angle F 2	120@60	2.5 x 2.0 x 1.6	Black	6'	0.5	UL/CSA	9.95	8.95	7.95	6.95
1953639	ReliaPro	DCU09050	9	500	2.1mm x 5.5mm F 2	120@60	3.3 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	10.95	9.95	8.95	7.95
1953647	ReliaPro	DCU09050	9	500	2.5mm x 5.5mm F 2	120@60	3.3 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	10.95	9.95	8.95	7.95
220898	ReliaPro	DCU120020	12	200	2.1mm x 5.5mm F 1	120@60	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	9.95	8.95	7.95	6.95
1953655	ReliaPro	DDU120050H	12	500	2.1mm x 5.5mm F 1	120@60	2.9 x 2.2 x 1.9	Black	6'	1.3	UL/CSA	10.95	9.95	8.95	7.95
162996	ReliaPro	DDU120050	12	500	2.1mm x 5.5mm F 2	120@60	3.2 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	10.95	9.95	8.95	7.95
170245	ReliaPro	RDU120100	12	1000	2.1mm x 5.5mm F 2	120@60	3.2 x 2.3 x 2.0	Black	6'	1.2	UL/CUL	14.95	13.49	11.95	10.95
1953663	ReliaPro	DCU1201000	12	1000	2.5mm x 5.5mm F 2	120@60	3.3 x 2.3 x 2.0	Black	6'	1.2	UL/CSA	14.95	13.49	11.95	10.95
174861	ReliaPro	DFU240050	24	500	2.1mm x 5.5mm F 2	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	12.95	11.49	9.95	8.95
174879	ReliaPro	DCU090025	24	500	2.5mm x 5.5mm F 2	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	12.95	11.49	9.95	8.95
1953698	ReliaPro	DFU2401000	24	1000	2.1mm x 5.5mm F 2	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CSA	16.95	14.95	13.49	11.95
1953671	ReliaPro	MPC-2400107	24	1000	2.5mm x 5.5mm F 2	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CSA	16.95	14.49	11.95	10.95

More AC-to-DC Wall Adapters listed on pages 111-112 & 114-115

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# AC-to-DC Unregulated Linear Wall Adapters

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE



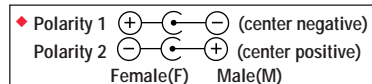
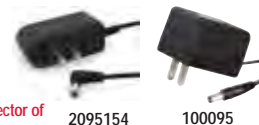
## AC-to-DC Unregulated Linear Wall Adapters

120VAC @ 60Hz

We specialize in Wall Adapters - Call for additional OEM PRICING.

★ Web Code: UAP

We are happy to change any listed DC wall adapter power plug to a connector of your choice (see pg 120) for just \$2.50 each. A 100 pc. minimum order applies.



Part No.	Manufacturer	Product No.	Output Rating		Output Connector ID x OD mm Female/Male; Polarity ◆	Size (H" x W" x D")	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Curr. (mA)							1	10	50	100
2126109	ReliaPro	K12D045025023U	4.5	250	2.1mm x 5.5mm F 2	2.3 x 1.5 x 1.4	Black	6'	0.3	UL/CUL	\$4.95	\$4.49	\$3.95	\$3.59
112070	ReliaPro	DBU050022Z5480	5	225	2.5mm x 5.5mm F 2	1.9 x 2.2 x 2.0	Black	7'	0.3	UL/CSA	4.95	4.49	3.95	3.59
2125536	CUI Inc	DPD050025	5	250	2.1mm x 5.5mm F 2	2.2 x 1.5 x 1.4	Black	6'	0.3	UL/CUL	4.95	4.49	3.95	3.59
155601	ReliaPro	DCU050100B3582	5	1000	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.7	Black	6'	0.7	UL/CSA	9.95	8.95	7.95	6.95
1918657	ReliaPro	DDU050100	5	1000	2.5mm x 5.5mm F 2	3.2 x 2.2 x 1.9	Black	6'	0.7	UL/CUL	9.95	8.95	7.95	6.95
237251	Freeplay	DPX350817	6	100	2.1mm x 5.5mm F 2	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	3.95	3.59	3.19	2.89
302439	Dynage	LF06300D-08	6	300	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.49	2.95	2.59
2099551	Fuhua	UE-3560300D	6	300	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.7	Black	6'	0.4	UL/CUL	4.95	4.49	3.95	3.59
119255	ReliaPro	DBU060050Z2251	6	500	2.1mm x 5.5mm F 1	2.3 x 1.8 x 1.8	Black	6'	0.6	UL/CUL	6.95	6.25	5.59	4.95
101266	ReliaPro	DBU060050E3860	6	500	2.1mm x 5.5mm F 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CSA	6.95	6.25	5.59	4.95
15544	ReliaPro	DBU060050Z8371	6	500	3.5mm M 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CSA	6.95	6.25	5.59	4.95
2081431	PEI	DV-0670-B14	6	700	2.1mm x 5.5mm F 2	2.4 x 2.0 x 1.6	Black	6'	0.5	UL/CUL	5.95	5.39	4.79	4.29
147707	ReliaPro	DBU060080C6962	6	800	2.1mm x 5.5mm F 2	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	7.95	6.95	5.95	4.95
220943	ReliaPro	DCU060120G2401	6	1200	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.7	UL/CUL	8.95	7.95	6.95	5.95
2095154	Thomson	5-2760	7.5	500	2.1mm x 5.5mm right angle F 2	2.5 x .96 x 1.4	Black	6'	0.4	UL/CUL	3.95	3.49	2.95	2.59
220951	ReliaPro	DCU075100G2291	7.5	1000	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	8.95	7.95	6.95	5.95
248751	Uniq	AD-071A	7.5	1000	2.5mm x 5.5mm F 2	2.3 x 2.3 x 1.9	Black	6'	0.9	UL/CSA	4.95	4.49	3.95	3.59
127511	ReliaPro	DDU080100E2281	8	1000	2.1mm x 5.5mm F 2	3.1 x 2.5 x 2.1	Black	6'	1.3	UL	8.95	7.95	6.95	5.95
355936	ReliaPro	DBU090020	9	200	1.3mm x 3.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	5.95	5.35	4.79	4.39
134025	ReliaPro	DBU090020Z6100	9	200	2.1mm x 5.5mm F 1	2.1 x 1.7 x 1.6	Black	6'	0.4	UL/CSA	5.95	5.35	4.79	4.39
2100152	ReliaPro	AP2911	9	200	2.1mm x 5.5mm F 2	2.6 x 1.8 x 1.5	Black	6'	0.4	UL/CUL	4.95	4.49	3.95	3.59
100845	ReliaPro	DBU090020E0850	9	200	2.1mm x 5.5mm F 2	2.1 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	5.95	5.35	4.79	4.39
2082556	Thomson	5-2616	9	200	2.1mm x 5.5mm right angle F 2	2.2 x 1.4 x 1.4	Black	6'	0.5	UL/CUL	3.95	3.49	2.95	2.59
2082548	Atlinks	5-2617	9	200	2.1mm x 5.5mm right angle F 2	2.2 x 1.4 x 1.4	Gray	6'	0.5	UL/CUL	4.95	4.49	3.95	3.59
100837	ReliaPro	DBU090020Z5490	9	200	3.5mm M 2	2.6 x 1.8 x 1.6	Black	6'	0.4	UL/CSA	5.95	5.35	4.79	4.39
133891	ReliaPro	DBU090030C112	9	300	2.1mm x 5.5mm F 2	2.0 x 1.5 x 1.5	Black	6'	0.4	UL/CSA	5.95	5.35	4.79	4.39
318676	ReliaPro	DBU090030H5790	9	300	2.5mm x 5.5mm F 1	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	5.95	5.39	4.79	4.39
1949120	Various	AD35-0900300DU	9	300	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL	4.95	4.49	3.95	3.59
189238	ReliaPro	DBU090030H4540	9	300	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	5.95	5.35	4.79	4.39
1954615	Mei Int.	MADA-2131	9	350	2.5 mm M 1	2.2 x 1.7 x 1.5	Black	6'	0.3	UL/CUL	4.95	4.49	3.95	2.95
140636	ReliaPro	DCU090040C6351	9	400	2.5mm x 5.5mm F 2	2.6 x 2.0 x 2.0	Black	6'	0.6	UL/CSA	5.95	5.35	4.79	4.25
163628	ReliaPro	DCU090050Z7484	9	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	6.95	6.25	5.59	4.95
100853	ReliaPro	DCU090050E2961	9	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	6.95	6.25	5.59	4.95
147732	ReliaPro	OH-41036DT	9	500	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.7	Beige	6'	0.6	UL/CSA	6.95	6.25	5.59	4.95
236937	ReliaPro	DCU090050G6440	9	500	2.5mm x 5.5mm right angle F 2	2.5 x 2.0 x 1.7	Black	6'	0.4	UL/CSA	6.95	6.25	5.59	4.95
15561	ReliaPro	DCU090050A2011	9	500	3.5mm M 2	2.5 x 2.0 x 1.6	Black	6'	0.5	UL/CSA	6.95	6.25	5.59	4.95
202180	ReliaPro	DCU090060F2091	9	600	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	6.95	6.25	5.59	4.95
100175	ReliaPro	DCU090060Z6652	9	600	2.5mm x 5.5mm F 2	2.7 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	6.95	6.25	5.59	4.95
202198	ReliaPro	DCU090080F2221	9	800	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	8.95	7.95	6.95	5.95
421577	Powerline	0900-12	9	850	2.5mm x 5.5mm F 2	2.7 x 2.1 x 1.7	Black	6'	0.8	UL/CSA	6.95	6.25	5.59	3.95
164929	ReliaPro	DDU090100C2550	9	900	2.1mm x 5.5mm F 1	2.7 x 2.3 x 1.8	Black	6'	0.9	UL/CUL	6.95	6.25	5.59	4.95
421690	Fisher Price	SA48-29A	9	1000	2.1mm x 5.5mm F 2	3.1 x 2.2 x 1.8	Black	6'	1.1	UL/CSA	6.95	5.95	4.95	3.95
364576	ReliaPro	DDU090100J0490	9	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	9.95	8.95	7.95	6.95
2099905	Golden Regent	W48D-H1000	9	1000	2.5mm x 5.5mm F 1 (US plug)	3.2 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	6.95	5.95	4.95	3.95
2099913	ENG*	T48-9-1000D3	9	1000	2.5mm x 5.5mm F 1 (Euro plug)	3.2 x 2.3 x 1.9	Black	6'	0.9	CE/TUV	6.95	5.95	4.95	3.95
2099921	ENG*	T48-9-1000D4	9	1000	2.5mm x 5.5mm F 1 (UK plug)	3.2 x 2.3 x 1.9	Black	6'	0.9	CE/TUV	6.95	5.95	4.95	3.95
127505	ReliaPro	DDU090100	9	1000	2.5mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	9.95	8.95	7.95	6.95
1586082	GTE	ADP2108GT (2.5)	9	1000	2.5mm M 2	2.6 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	6.95	5.95	4.95	3.95
15587	ReliaPro	DDU090100Z9081	9	1000	3.5mm M 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	9.95	8.95	7.95	6.95
130526	ReliaPro	DDE090120F3621	9	1200	2.1mm x 5.5mm F 1	2.4 x 2.0 x 1.8	Black	6'	1.0	UL/CSA	10.95	9.95	8.95	7.95
143693	ReliaPro	DFU0901500A3040	9	1500	2.1mm x 5.5mm F 2	3.3 x 2.5 x 2.3	Black	6'	1.3	UL/CSA	12.95	11.95	10.95	9.95
2082193	Philips	SPA-3545-81	12	100	2.1mm x 5.5mm F 2	2.5 x 1.8 x 1.5	Black	6'	0.5	UL/CSA	5.49	4.95	4.75	4.29
163993	ReliaPro	DBU120020E2291	12	200	2.1mm x 5.5mm right angle F 1	2.4 x 1.7 x 1.6	Black	6'	0.4	UL/CSA	5.49	4.95	4.75	4.29
100095	ReliaPro	DBU120020G0610	12	200	2.1mm x 5.5mm F 2	2.1 x 1.8 x 1.5	Black	6'	0.4	UL/CSA	5.49	4.95	4.75	4.29
158043	ReliaPro	DBU120020E2261	12	200	2.1mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	5.95	5.39	4.59	3.95
127976	ReliaPro	DCU120030D7161	12	300	2.1mm x 5.5mm F 2	2.6 x 1.8 x 1.6	Black	6'	0.7	UL/CSA	6.95	6.25	5.59	4.95
2125923	Anoma	AEC-4112B	12	300	2.5mm x 5.5mm F 2	2.4 x 1.2 x 1.6	Black	6'	0.7	UL/CSA	6.95	6.25	5.59	4.95

\* 240VAC 50Hz

More AC-to-DC Wall Adapters listed on pages 111-113 & 115

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

# AC-to-DC Unregulated Linear Wall Adapters

JAMECO ReliaPro

## AC-to-DC Unregulated Linear Wall Adapters (Continued)

120VAC @ 60Hz

★ Web Code: UAP

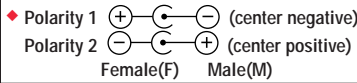
We specialize in Wall Adapters – Call for additional OEM PRICING.



We are happy to change any listed DC wall adapter power plug to a connector of your choice (see pg 120) for just \$2.50 each.  
A 100 pc. minimum order applies.



123158



Part No.	Manufacturer	Product No.	Output Rating		Output Connector ID x OD mm Female/Male: Polarity ◆	Size (H" x W" x D")	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Curr. (mA)							1	10	50	100
190503	ReliaPro	ADA-410	12	400	2.1mm x 5.5mm right angle F 2	2.6 x 2.1 x 1.9	Black	6'	0.5	UL/CUL	\$7.49	\$6.95	\$5.65	\$4.95
114825	ReliaPro	DCU120050D4740	12	500	Stripped & tinned	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	6.29	4.95	4.39	4.19
15368	ReliaPro	DCU120050Z8698	12	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	6.49	5.95	5.39	4.95
102496	ReliaPro	DCU120050E8601	12	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	7.95	7.29	6.59	5.95
131300	ReliaPro	DCU120050E0251	12	500	2.1mm x 5.5mm right angle F 2	2.6 x 1.9 x 1.7	Beige	6'	0.6	UL/CSA	7.95	7.29	6.59	5.95
102277	ReliaPro	DCU120050UE2631	12	500	2.5mm x 5.5mm F 2	2.5 x 2.1 x 1.7	Black	6'	0.6	UL/CSA	7.95	7.29	6.59	5.95
17267	ReliaPro	DCU120050Z5391	12	500	3.5mm M 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	7.95	7.29	6.59	5.59
202201	ReliaPro	DCU120060F2131	12	600	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	7.95	7.29	6.59	5.95
202219	ReliaPro	DCU120070F2142	12	700	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	8.95	7.95	7.29	6.49
117479	ReliaPro	DDU120080E6451	12	800	2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	8.95	7.95	7.29	6.49
129331	ReliaPro	DDU120080F2412	12	800	2.5mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	8.95	7.95	7.29	6.49
121232	ReliaPro	DDU120080F2271	12	800	3.5mm M 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	7.95	7.25	5.95	5.45
100870	ReliaPro	DDU120100Z7974	12	1000	2.1mm x 5.5mm F 2	2.6 x 2.4 x 1.9	Black	6'	0.9	UL/CSA	9.95	8.95	7.95	7.29
105478	ReliaPro	DDU120100Z2993	12	1000	2.5mm x 5.5mm F 2	3.1 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	9.95	8.95	7.95	7.29
15392	ReliaPro	DDU120100E7302	12	1000	3.5mm M 2	3.3 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	9.95	8.95	7.95	7.29
2125991	CUI	57-12-1200D	12	1200	2.1mm x 5.5mm F 2	3.6 x 2.6 x 2.1	Black	6'	1.4	UL/CUL	9.95	8.95	7.95	6.95
196779	ReliaPro	DDU120120G0031	12	1200	2.5mm x 5.5mm F 2	3.0 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	10.95	9.95	8.95	7.95
203036	ReliaPro	DDU120150H4530	12	1500	2.1mm x 5.5mm F 1	3.3 x 2.2 x 1.9	Black	6'	1.5	UL/CUL	14.95	13.49	11.95	10.95
136881	ReliaPro	DDU120150K1960	12	1500	2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL	14.95	13.49	11.95	10.95
1928151	Leader	481215003CT	12	1500	2.5mm x 5.5mm F 2	3.4 x 2.3 x 2.1	Black	6'	1.5	UL/CUL	12.95	11.49	9.95	8.95
101291	ReliaPro	DDU120150	12	1500	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL/CUL	14.95	13.49	11.95	10.95
2077626	Qualcomm	TXACA036	13	1000	2.5mm x 5.5mm F 2 (Switching)	2.7 x 2.4 x 1.6	Black	6'6"	0.6	UL/CE	6.95	6.25	5.59	4.95
308099	ReliaPro	DDU135100H3210	13.5	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	10.95	9.95	8.95	7.95
212812	ReliaPro	DBU140020F6022	14	200	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	6.95	6.25	5.59	4.95
212821	ReliaPro	DBU140030F6042	14	300	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	7.95	7.29	6.59	5.95
129314	Various	DV-1250	14	360	2.5mm x 5.5mm right angle F 2	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	6.95	5.95	4.95	3.95
123932	ReliaPro	DDU140070Z7470	14	700	2.1mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	8.95	7.95	6.95	6.25
202260	ReliaPro	DDU140100F3270	14	1000	2.1mm x 5.5mm F 2	3.9 x 2.9 x 2.4	Black	6'	0.9	UL/CUL	8.95	7.95	6.95	5.95
190001	ReliaPro	DCU150050E3021	15	500	2.1mm x 5.5mm F 2	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	7.95	7.29	6.59	5.95
189982	ReliaPro	DCU150050E3031	15	500	2.5mm x 5.5mm F 2	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	7.95	7.29	6.59	5.95
155803	ReliaPro	DDU150060E5822	15	600	2.1mm x 5.5mm F 1	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CSA	8.95	7.95	7.29	6.49
203502	ReliaPro	DDU150090F4480	15	900	2.5mm x 5.5mm F 2	2.6 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	9.95	8.95	7.95	7.29
151992	ReliaPro	DDU150100E8181	15	1000	2.1mm x 5.5mm F 1	3.1 x 2.0 x 1.9	Beige	6'	1.5	UL/CSA	8.95	7.95	6.95	5.95
191652	ReliaPro	DDU150100D7051	15	1000	2.1mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	10.95	9.95	8.95	7.95
681563	Ault	P48151000A020G	15	1000	2.5mm x 5.5mm F 2	3.3 x 2.3 x 1.9	Black	6'	1.2	UL/CSA	7.95	6.95	5.95	4.95
162317	ReliaPro	DDU165050J19910	16	500	2.1mm x 5.5mm F 2	2.5 x 2.0 x 1.7	Black	6'	0.8	UL/CSA	9.95	8.95	7.95	7.29
217541	NiteRider	FE4116168C030	16.8	300	2.5mm x 5.5mm F 2	3.1 x 2.1 x 1.6	Black	6'	0.6	UL/CUL	5.95	5.25	4.59	3.95
2081713	DVE	DV-1790	17	900	2.5mm x 5.5mm F 2	3.2 x 2.2 x 2.0	Black	6'	1.2	UL/CSA	5.95	5.25	4.59	3.95
181729	ReliaPro	DCU180025F8680	18	250	2.1mm x 5.5mm F 2	3.6 x 2.0 x 1.6	Black	6'	0.6	UL	6.95	6.25	5.59	4.95
217568	NiteRider	FE4126180P040	18	400	2.5mm x 5.5mm F 2 (w/ LED indicator)	3.5 x 2.1 x 1.6	Black	6'	0.8	UL/CUL	6.95	6.25	5.59	4.95
163272	ReliaPro	DDU180050C1031	18	500	2.1mm x 5.5mm F 2	2.6 x 2.3 x 1.9	Black	6'	0.8	UL/CUL	8.95	7.95	7.29	6.49
206958	ReliaPro	DDU180100H4551	18	1000	2.5mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.4	UL/CUL	9.95	8.95	7.95	7.29
102285	ReliaPro	DDU240040Z7860	24	400	2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CUL	8.95	7.95	7.29	6.49
163635	ReliaPro	DDU240050C1981	24	500	2.1mm x 5.5mm F 1	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.95	8.95	7.95	7.29
191556	ReliaPro	DDU240050E5852	24	500	2.5mm x 5.5mm F 2	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.95	8.95	7.95	7.29
139088	ReliaPro	DDU240050E9160	24	500	3.5mm M 2	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.95	8.95	7.95	7.29
1918930	ReliaPro	DDU240060L260	24	600	2.1mm x 5.5mm F 2	2.9 x 2.2 x 1.9	Black	6'	0.4	UL/CUL	10.95	9.95	8.95	7.95
168495	ReliaPro	DFU240080J3180	24	800	2.1mm x 5.5mm F 2	2.9 x 1.9 x 1.6	Black	6'	0.4	UL/CUL/TUV	11.95	10.95	9.95	8.95
220960	ReliaPro	DFU240100G2300	24	1000	2.1mm x 5.5mm F 1	3.4 x 2.7 x 2.2	Black	6'	1.6	UL/CUL	14.95	13.49	11.95	9.95
249121	ReliaPro	DFU240120/G8520	24	1150	2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	16.95	14.95	13.49	11.95
249113	ReliaPro	DFU240120/G8510	24	1150	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	16.95	14.95	13.49	11.95
199523	ReliaPro	DDU300050E9340	30	500	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	9.95	8.95	7.95	7.29
215095	ReliaPro	MW48-4800250	48	250	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	8.95	7.95	7.29	6.49
230640	ReliaPro	MW57-4800500-2.1	48	500	2.1mm x 5.5mm F 2	3.3 x 2.7 x 2.2	Black	6'	1.1	—	10.95	9.95	8.95	7.95
215109	ReliaPro	MW57-4800500	48	500	2.5mm x 5.5mm F 2	3.3 x 2.7 x 2.2	Black	6'	1.1	—	9.95	8.95	7.95	6.95
15309	ReliaPro	900-051	3, 4.5, 6, 7.5, 9, 12	500	1.3 x 3.5, 2.1 x 5.0, 2.5 x 5.5 Female 2.5, 3.5 Male, 9V battery snap (LED ind.)	3.0 x 2.2 x 2.1	Black	6'	0.7	UL/CSA	9.95	8.95	7.95	6.95
123158	ReliaPro	900-100	1.5, 3, 4.5, 6, 7.5, 9, 12	1000	1.3 x 3.5, 2.1 x 5.0, 2.5 x 5.5 Female 2.5, 3.5 Male, 9V battery snap (LED ind.)	3.7 x 2.2 x 2.5	Black	6'	0.9	—	10.95	9.95	8.95	7.95

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



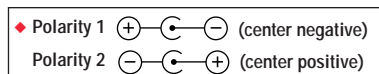
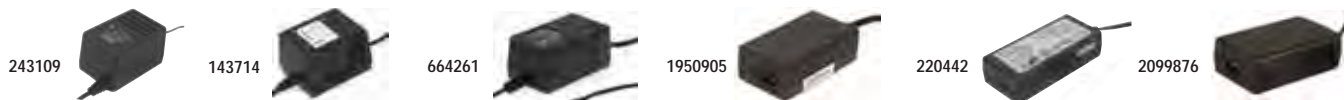
# AC-to-DC Table-Top Power Supplies

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## AC-to-DC Regulated & Unregulated Linear & Switching Table-Top Power Supplies

We are happy to change the power plug on any listed table-top power supply to a connector of your choice (see pg 120) for just \$2.50 each. A 100 pc. minimum order applies.



See page 125 for International Power Cords

Part No.	Manufacturer	Product No.	Output Volts (VDC)/ Current (A)	Output Connector ID x OD/F = female; M = male; Polarity	Input VAC@Hz	Output Power (W)	LED Ind.	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
												1	10	50	100
2-Wire AC Input – Unregulated Linear Table-Top												★ Web Code: TBE			
190051	APS	APS48EA114	+7/1.5	2.5mm x 5.5mm F 2	120@60	10	No	3.4 x 2.3 x 1.9	6'/6'	1.9	UL/CUL	\$5.95	\$4.95	\$3.95	\$2.95
243109	Regal	JK-91001-N	+9/1.0	Stripped & Tinned	120@60	9	No	3.3 x 2.2 x 1.9	6'/6'	1.2	UL/CSA	6.95	6.25	4.95	3.95
2081941	Toshiba	AD-121ADT	+12/1.0	2.1mm x 5.5mm F 2	120@60	12	No	3.2 x 2.2 x 1.9	6'/6'	1.3	UL/CUL	7.95	6.95	6.25	5.59
140880	ReliaPro	DC1215ST	+12/1.5	Stripped & Tinned	120@60	18	No	3.1 x 2.1 x 1.9	6'/6'	1.5	UL	11.95	10.95	9.95	8.95
143715	ReliaPro	DC1220F1	+12/2.0	2.1mm x 5.5mm F 2	120@60	24	No	3.8 x 2.8 x 2.3	6'/6'	2.2	UL/CUL	14.95	13.49	11.95	10.95
143722	ReliaPro	DC1220F5	+12/2.0	2.5mm x 5.5mm F 2	120@60	24	No	3.8 x 2.8 x 2.3	6'/6'	2.2	UL/CUL	14.95	13.49	11.95	10.95
143731	ReliaPro	DC1220M3	+12/2.0	3.5mm M 2	120@60	24	No	3.8 x 2.8 x 2.3	6'/6'	1.9	UL/CUL	14.95	13.49	11.95	10.95
2099569	JEC	57-1607-U4D	+16/0.7	2.5mm x 5.5mm F 2	120@60	19	No	3.6 x 2.7 x 3.6	6'/6'	1.3	UL	7.95	6.95	5.95	4.95
139096	ReliaPro	DC2412F1	+24/1.2	2.1mm x 5.5mm F 2	120@60	29	No	4.4 x 3.1 x 2.6	6'/6'	2.5	—	14.95	13.49	11.95	10.95
1953815	SR Components	DC24-1.2	+24/1.2	2.1mm x 5.5mm F 2	120@60	29	No	4.5 x 3.4 x 2.6	5'/6'	0.7	UL	8.95	7.95	6.95	5.95
173665	Skynet	DND-3005	+30/0.5	2.5mm x 5.5mm F 2	120@60	15	No	3.0 x 2.5 x 2.2	5'9/3'2"	1.4	UL/CUL	5.95	5.25	4.95	3.95
2-Wire AC Input – Regulated Linear Table-Top												★ Web Code: CEM			
664261	Intermec	062035	+5/0.75	4-pin DIN M	120@60	3.75	No	4.4 x 2.5 x 2.0	6'/6'	1.6	UL/CSA	\$8.95	\$7.95	\$6.95	\$6.25
174845	ReliaPro	DCR2410F12	+24/1.0	2.1mm x 5.5mm F 2	120@60	24	No	4.4 x 3.0 x 2.5	6'/6'	2.6	UL	17.95	15.95	14.49	12.95
2-Wire AC Input – Regulated Switching Table-Top – Single Output												★ Web Code: DDZ			
1940299	Mean Well	GS18B05-P1J	+5/3.0	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.1 x 2.1 x 1.3	4'/1	0.5	UL/CSA/TUV/CEC	\$15.95	\$14.49	\$13.49	\$12.49
377925	Mean Well	P30B-1P2JU	+5/4.0	2.1mm x 5.5mm F 2	90-264@47-63	20	Yes	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CSA/TUV/CE	21.95	19.95	18.95	17.95
380621	Mean Well	ES25B05-P1MU	+5/4.0	2.5mm x 5.5mm F 2	90-264@47-63	20	Yes	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	18.95	16.95	15.49	14.49
1940301	Mean Well	GS18B07-P1J	+7.5/2.0	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.1 x 2.1 x 1.3	6'/1	0.5	UL/CSA/TUV/CEC	15.95	14.49	13.49	12.49
1707067	Mean Well	ES25B07-P1J	+7.5/2.93	2.1mm x 5.5mm F 2	100-240@50-60	22	Yes	3.1 x 2.1 x 1.3	6'/1	0.4	UL/CUL/TUV/CE	10.95	9.49	8.49	7.49
195806	ReliaPro	DCR920F12	+9/2.0	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	4.2 x 2.6 x 1.4	6'/6'	0.9	UL/CUL/TUV/CE	21.95	19.95	18.95	17.95
1940310	Mean Well	GS18B09-P1J	+9/2.0	2.1mm x 5.5mm F 2	90-264@47-63	18	Yes	3.1 x 2.1 x 1.3	6'/1	0.5	UL/CUL/TUV/CE	15.95	14.49	13.49	12.49
380681	Mean Well	ES25B09-P1MU	+9/2.78	2.5mm x 5.5mm F 2	90-264@47-63	25	Yes	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	18.95	16.95	15.49	14.49
379787	Mean Well	P30B-2P2MU	+9/2.89	2.5mm x 5.5mm F 2	90-264@47-63	26	Yes	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CSA/TUV/CE	19.95	18.95	17.95	16.95
1940213	EDAC, Inc.	EA10302	+9/3.3	2.1mm x 5.5mm F 2	100-240@50-60	30	Yes	3.9 x 1.8 x 1.2	4'/1	0.5	UL/CUL/TUV/CE	14.95	13.49	11.95	10.95
1950905	APS	AD715U-1121	+12/1.2	2.5mm x 5.5mm F 2	100-240@50-60	15	No	3.7 x 2.1 x 1.3	6'/1	0.5	UL/CUL/TUV/CE	11.95	10.95	9.95	8.95
191353	Delta	ADP-15FB	+12/1.25	2.1mm x 5.5mm F 2	100-240@50-60	15	No	3.5 x 2.3 x 1.2	6'/1	0.5	UL/CE	11.95	10.95	9.95	8.95
1940328	Mean Well	GS18B12-P1J	+12/1.5	2.1mm x 5.5mm F 2	100-240@50-60	18	No	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/CE/CEC	15.95	14.49	13.49	12.49
2099868	DVE	DSA-0421S	+12/2.0	2.1mm x 5.5mm F 2	100-240@50-60	24	Yes	3.7 x 2.2 x 1.3	6'/6'	0.4	UL/CUL/TUV/CE	19.95	16.95	14.95	12.49
1537555	APD	DA-24B12	+12/2.0	2.5mm x 5.5mm F 2	100-240@47-63	24	No	3.6 x 2.2 x 1.3	6'/1	0.4	UL/CUL/TUV/CE	19.95	17.95	15.95	13.95
1942155	Jentec	JTA0210P	+12/3.0	2.1mm x 5.5mm F 2	100-240@50-60	36	Yes	4.3 x 2.0 x 1.2	4'/1	0.6	UL/CUL/TUV/CE	15.95	13.95	11.95	10.95
401042	ReliaPro	ADPV16	+12/3.0	2.1mm x 5.5mm F 2	100-240@50-60	36	No	3.9 x 1.8 x 1.2	4'/1	0.5	UL/CUL/TUV/CE	22.95	20.49	18.95	16.95
220442	ReliaPro	SL120300RT	+12/3.0	2.5mm x 5.5mm F 2	100-240@50-60	36	Yes	4.3 x 2.0 x 1.2	6'/1	0.6	UL/CUL/TUV/CE	24.95	22.49	19.95	17.95
2099876	Lishin Int.	LSE9802A 1240	+12/3.33	2.1mm x 5.5mm F 2	100-240@50-60	40	Yes	3.7 x 2.2 x 1.3	5'/6'	0.4	UL/CSA/TUV/CE	19.95	18.49	16.95	14.95
1940521	Mean Well	GS25B15-P1JT	+15/1.66	2.1mm x 5.5mm F 2	100-240@50-60	25	No	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/CEC	18.95	16.95	14.95	13.49
1940539	Mean Well	GS25B18-P1J	+18/1.38	2.1mm x 5.5mm F 2	100-240@50-60	25	Yes	3.1 x 2.1 x 1.3	6'/1	0.5	UL/CSA/TUV/CEC	18.95	16.95	14.95	13.49
1940352	Mean Well	GS18B24-P1J	+24/0.75	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.1 x 2.1 x 1.3	6'/1	0.5	UL/CSA/TUV/CEC	15.95	14.49	13.49	12.49
1940547	Mean Well	GS25B24-P1JT	+24/1.04	2.1mm x 5.5mm F 2	100-240@50-60	25	Yes	3.1 x 2.1 x 1.3	6'/1	0.5	UL/CSA/TUV/CE/CEC	16.49	14.95	13.49	12.49
221613	Mean Well	P30B-6P2JT	+24/1.12	2.1mm x 5.5mm F 2	100-240@50-60	27	Yes	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	22.95	20.95	18.95	16.95
1940230	EDAC, Inc.	EA1030D2	+24/1.25	2.1mm x 5.5mm F 2	100-240@50-60	30	Yes	3.9 x 1.8 x 1.2	4'/1	0.5	UL/CUL/TUV/CE	19.95	17.95	15.95	13.95
229843	Phihong	PSAA60W-240	+24/2.5	2.1mm x 5.5mm F 2	100-240@47-63	60	No	5.1 x 2.4 x 1.3	4'/1	0.5	UL/CSA/CEC	36.95	33.95	31.95	28.95
1707075	Mean Well	ES18B28-P1J	+28/0.64	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.1 x 2.1 x 1.3	6'/1	0.5	UL/CUL/TUV/CE	7.95	6.95	5.95	4.95
1940379	Mean Well	GS18B48-P1JT	+48/0.37	2.1mm x 5.5mm F 2	100-240@50-60	18	No	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/CEC	15.95	14.49	13.49	12.49
1707139	Mean Well	ES25B48-P1J	+48/0.52	2.1mm x 5.5mm F 2	100-240@50-60	25	Yes	3.1 x 2.1 x 1.3	6'/1	0.4	UL/CUL/TUV/CE	19.95	17.95	15.95	14.49

\* See accessory table-top power cord chart on page 119 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord † Right Angle

✓ CEC Equivalent available. Add a "C" before part number for CEC version. 🌿 CEC

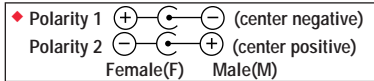
🌿 RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

# AC-to-DC Regulated Switching Table-Top Power Supplies

## AC-to-DC Regulated Linear & Switching Table-Top Power Supplies

We are happy to change the power plug on any listed table-top power supply to a connector of your choice (see pg 120) for just \$2.50 each. A 100 pc. minimum order applies.

See page 125 for  
International Power Cords



Part No.	Manufacturer	Manufacturer Part No.	Output Volts (VDC)/ Current (A)	Output Connector ID x OD mm Female/Male; Polarity	Input VAC@Hz	Output Power (W)	LED Ind.	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
												1	10	50	100
2-Wire AC Input – Regulated Switching Table-Top – Triple Output												★ Web Code: TTO			
196138	DVE	DSA-0283A	+5/1, +12/1.49 -5/0.43	5-pin DIN M	100-240@47-63	23	No	4.9 x 2.7 x 1.5	6'1	0.8	UL/CSA/TUV	\$6.95	\$5.95	\$4.95	\$3.95
3-Wire AC Input – Regulated Linear Table-Top – Double & Quad Output												★ Web Code: CEM			
689661	Regal	R1JG-5500	+5/1; -5/0.5	5-pin DIN M	120@60	30	No	5.1 x 3.6 x 2.8	6'6'	2.7	UL	\$9.95	\$8.95	\$7.95	\$6.95
689653	Regal	RJM-551228	+5/0.9; -5/0.2; +12/62; -28/16	6-pin DIN M	120@60	55	No	5.1 x 3.6 x 2.8	6'6"	1.3	CUL	10.95	9.49	7.95	6.95
3-Wire AC Input – Regulated Switching Table-Top – Single Output												★ Web Code: DDZ			
1928863	DVE	DSA0210D-03	+3.3/4.0	2.5mm x 5.5mm F 2	100-240@50-60	13	No	3.9 x 2.0 x 1.4	4'7	0.5	UL/CUL/TUV/CE	\$12.95	\$10.95	\$9.49	\$8.49
2115549	Sino-American	217-03814	+5/0.5	2.1mm x 5.5mm F 2	100-240@50-60	2.5	No	3.1 x 2.0 x 1.2	6'7	0.4	UL/CSA	8.95	7.95	6.95	5.95
308700	Be-Well	ZD0001F	+5/1.0	2.1mm x 5.5mm F 2	100-240@50-60	5	No	4.2 x 2.0 x 1.6	6'7	0.4	UL/CUL/TUV/CE	9.95	8.95	7.95	6.95
1918737	Magtech	SPU15A-102	+5/1.0	2.5mm x 5.5mm F 2	100-240@47-63	5	Yes	3.6 x 1.5 x 1.4	6'7	0.4	UL/CUL/TUV/CE	9.95	8.95	7.95	6.95
309876	Go Forward	GI12-USO520	+5/2.0	2.1mm x 5.5mm F 2	100-240@50-60	10	No	2.6 x 1.9 x 1.3	6'7	0.4	UL/CUL/TUV/CE	9.95	8.95	7.95	6.95
196218	GlobTek	GT-21089-1305T3	+5/2.0	2.1mm x 5.5mm F 2	120-240@50-60	10	No	3.4 x 1.9 x 1.3	6'7	0.4	UL/CUL/TUV/CE	15.95	14.49	12.95	11.95
1955642	Delta	ADP-105B	+5/2.0	2.1mm x 5.5mm F 2	100-240@50-60	10	No	3.3 x 1.9 x 1.2	6'7	0.3	UL/CUL/CE	9.95	8.95	7.95	6.95
1954236	Mean Well	GS15A-1P1J	+5/2.4	2.1mm x 5.5mm F 2	90-264@47-63	12	No	3.9 x 2.3 x 1.3	6'7	0.4	UL/CUL/TUV/CEC	17.95	15.95	14.49	13.49
695244	DVE	DSA-0151D-05	+5/2.4	2.5mm x 5.5mm F 2	100-240@47-63	10	No	3.9 x 2.0 x 1.4	6'7	0.5	UL/CUL/TUV/CE	12.95	11.49	9.95	8.95
2115506	OEM	SYS1089-1305-T3	+5/2.6	2.1mm x 5.5mm F 2	100-240@50-60	13	No	3.4 x 1.8 x 1.3	6'7	0.3	UL/CUL/CE	12.95	11.49	9.95	8.95
1940387	Mean Well	GS18A05-P1J	+5/3.0	2.1mm x 5.5mm F 2	100-240@50-60	15	Yes	3.7 x 2.1 x 1.4	4'7	0.5	UL/CUL/TUV/CE/CEC	18.49	16.49	14.49	12.95
1940571	Mean Well	GS25A05-P1J	+5/4.0	2.1mm x 5.5mm F 2	100-240@50-60	20	Yes	3.7 x 2.1 x 1.4	4'7	0.5	UL/CULTUV/CEC	19.95	18.95	16.49	14.95
1952337	Mean Well	GS40A05-P1JU	+5/5.0	2.1mm x 5.5mm F 2	90-264@47-63	25	Yes	4.9 x 2.0 x 1.2	4'7	0.7	UL/CSA/TUV/CEC	34.95	31.49	27.95	24.95
320081	GlobTek	TR9CA6000LCP-Y	+5/6.0	2.5mm x 5.5mm F 2	100-240@50-60	30	Yes	4.7 x 2.4 x 1.3	6'7	0.7	UL/CUL/TUV/CE	39.95	35.95	31.95	28.95
206529	Mean Well	GS40A07-P1J	+7.5/5.34	2.1mm x 5.5mm F 2	100-240@50-60	40	Yes	4.9 x 2.0 x 1.3	6'6"	1.5	UL/CUL/TUV/CE	27.95	25.95	24.49	22.95
1940408	Mean Well	GS18A09-P1JU	+9/2.0	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.7 x 2.1 x 1.4	6'6"	0.6	UL/CUL/TUV/CEC	18.49	16.49	14.49	12.95
1952361	Mean Well	GS60A09-P1J	+9/6.0	2.1mm x 5.5mm F 2	90-264@47-63	54	Yes	4.9 x 2.0 x 1.3	4'7	0.7	UL/CUL/TUV/CEC	28.95	26.95	24.95	22.95
1955651	ELPAC	W0812	+12/0.67	2.5mm x 5.5mm F 2	100-240@47-63	8	No	3.3 x 1.9 x 1.2	6'6"	0.8	UL/CUL/TUV/CE	9.95	8.95	7.95	6.95
1928417	Mean Well	GI12-US1210	+12/1.0	2.1mm x 5.5mm F 2	100-240@50-60	12	No	2.9 x 1.9 x 1.3	6'7	0.3	UL/CSA/TUV/CE	14.95	13.49	11.95	10.95
1954244	Mean Well	GS15A-3P1J	+12/1.25	2.1mm x 5.5mm F 2	90-264@47-63	15	No	3.9 x 2.3 x 1.3	6'7	0.4	UL/CUL/TUV/CEC	17.95	15.95	14.49	12.95
1940416	Mean Well	GS18A12-P1JU	+12/1.5	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.7 x 2.1 x 1.4	6'6"	0.5	UL/CUL/TUV/CEC	18.49	16.49	14.49	12.95
616216	Sinotech	MPC1200150	+12/1.5	2.5mm x 5.5mm F 1	100-240@50-60	18	No	3.4 x 2.2 x 1.3	6'7	0.5	UL/CUL/CE/CEC	15.95	13.95	12.49	10.95
1928425	ITE	NL20-120160-11	+12/1.6	2.1mm x 5.5mm F 2	100-240@50-60	19	Yes	4.3 x 1.8 x 1.2	6'7	0.2	UL/CSA/TUV/CE	13.95	12.49	10.95	9.95
1940601	Mean Well	GS25A12-P1JU	+12/2.08	2.1mm x 5.5mm F 2	100-240@50-60	25	Yes	3.7 x 2.1 x 1.4	4'6"	0.5	UL/CUL/TUV/CEC	18.95	16.95	14.95	13.49
1950884	APS	AD725U-1120A	+12/2.1	2.1mm x 5.5mm F 2	100-240@50-60	25	No	3.8 x 2.1 x 1.3	6'7	0.5	UL/CUL/TUV/CE	12.95	11.95	10.49	8.95
1918690	First Vision	SA06H12-A	+12/2.5	2.5mm x 5.5mm F 2	100-240@50-60	30	Yes	3.7 x 2.0 x 1.4	4'7	0.6	UL/CUL/TUV/CE	10.95	9.95	8.95	7.95
1942147	Jentec	SA06H1217-A	+12/2.5	2.5mm x 5.5mm F 2	100-240@50-60	30	Yes	3.7 x 2.0 x 1.4	6'7	0.6	UL/CUL/TUV/CE	12.95	10.95	9.95	8.95
2129158	Sparkle Power	FSP-040-DGAA1	+12/3.33	2.1mm x 5.5mm F 2	100-240@50-60	40	Yes	4.3 x 2.0 x 1.2	5'7	0.5	UL/CUL/TUV/CE	26.95	24.95	22.95	20.95
155214	Mean Well	P40A-3P2JU	+12/3.33	2.1mm x 5.5mm F 2	100-240@50-60	40	Yes	4.3 x 2.6 x 1.4	6'6"	0.7	UL/CUL/TUV	39.95	35.95	32.95	29.95
1708625	HiPro	HP02040043	+12/3.33	2.5mm x 5.5mm F 2	100-240@50-60	40	Yes	4.3 x 2.4 x 1.2	5'7	0.7	UL/CUL/TUV/CE/CEC	17.95	15.95	13.95	12.49
297693	Mean Well	P40A-3P2MU-R	+12/3.33	2.5mm x 5.5mm F 2	100-240@50-60	40	Yes	4.3 x 2.6 x 1.4	6'6"	0.7	UL/CUL/TUV/CE	31.95	29.95	27.95	25.95
1952345	Mean Well	GS40A12-P1J	+12/3.4	2.1mm x 5.5mm F 2	90-264@47-63	40	Yes	4.9 x 2.0 x 1.3	4'7	0.7	UL/CUL/TUV/CEC	21.95	19.95	17.95	15.95
1940264	EDAC, Inc.	EA1050E	+12/3.5	2.1mm x 5.5mm F 2	100-240@50-60	42	Yes	4.7 x 2.4 x 1.4	4'7	0.6	UL/CUL/TUV/CE	20.95	18.95	16.95	14.95
1940272	EDAC, Inc.	EA1050C	+12/4.16	2.1mm x 5.5mm F 2	100-240@50-60	50	Yes	4.7 x 2.4 x 1.4	4'7	0.6	UL/CUL/TUV/CE	26.95	24.95	22.95	20.95
2100216	BESTEC	BPA-501-12	+12/4.2	2.5mm x 5.5mm F 2	100-240@50-60	50	Yes	6.5 x 2.8 x 1.8	5'7	0.7	UL/CSA/TUV	34.95	31.49	27.95	24.95
1952370	Mean Well	GS60A12-P1J	+12/5.0	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 x 1.9 x 1.2	4'7	0.7	UL/CUL/TUV/CEC	24.95	22.49	19.95	17.95
2129166	Sparkle Power	FSP060-DBAB1	+12/5.0	2.1mm x 5.5mm F 2	100-240@50-60	60	Yes	4.3 x 2.4 x 1.2	5'7	0.5	UL/CUL/TUV/CE	24.95	22.49	19.95	17.95
2099420	Sparkle Power	FSP060-DBAB1	+12/5.0	2.5mm x 5.5mm F 2	100-240@50-60	60	Yes	4.3 x 2.4 x 1.2	5'7	0.5	UL/CUL/TUV/CEC	27.95	24.95	22.95	19.95
2078291	Mean Well	GS90A12-P1M	+12/6.67	2.5mm x 5.5mm F 2	100-240@50-60	80	Yes	5.7 x 2.3 x 1.3	4'7	0.9	UL/CUL/TUV/CEC	44.49	41.49	38.95	36.49
221429	Mean Well	U6S105-P2JU	+12/6.7	2.1mm x 5.5mm F 2	100-240@50-60	80	Yes	6.6 x 3.1 x 1.8	6'6"	2.0	UL/CUL/TUV/CE	64.95	59.95	54.95	49.95
1940846	Mean Well	AS-120P-12	+12/8.4	4-pin DIN M	100-240@50-60	100	No	6.6 x 2.6 x 1.4	4'7	1.2	UL/CUL/TUV/CE	58.95	54.95	51.95	48.95

\* See accessory table-top power cord chart on page 119 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord 1 Right angle

✓ CEC Equivalent available

3-Wire Regulated Table-Top Power Supplies continued on next page

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# AC-to-DC Regulated Switching Table-Top Power Supplies

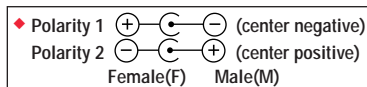
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## AC-to-DC Regulated Switching Table-Top Power Supplies (Continued)

We are happy to change the power plug on any listed table-top power supply to a connector of your choice (see pg 120) for just \$2.50 each. A 100 pc. minimum order applies.

See page 125 for  
International Power Cords



Part No.	Manufacturer	Manufacturer Part No.	Output	Output Connector	Input	Output	LED	Size	Cords*	Wt.	Agency Approvals	Pricing			
			Volts (VDC)/ Current (A)	ID x OD mm Female/Male; Polarity								VAC@Hz	(W)	Ind.	(L" x W" x H")
3-Wire AC Input – Regulated Switching Table-Top – Single Output (Continued)												* Web Code: DDZ			
2099294	Mean Well	GS220A12-R7B	+12/1.5	4-pin DIN M	90-264/127-370@47-63	180	Yes	8.3 x 3.4 x 1.8	3.3/2	2.4	UL/CUL/TUV/CE/PFC	\$109.95	\$97.95	\$89.95	\$84.95
1940432	Mean Well	GS18A15-P1JU	+15/1.2	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.7 x 2.1 x 1.4	6/16'	0.5	UL/CUL/TUV/CEC	18.49	16.49	14.49	12.95
1940619	Mean Well	GS25A15-P1J	+15/1.66	2.1mm x 5.5mm F 2	100-240@50-60	25	No	3.7 x 2.1 x 1.4	6/12'	0.5	UL/CUL/TUV/CEC	16.49	14.95	13.49	12.49
243012	Mean Well	P30A-4P2JU	+15/1.8	2.1mm x 5.5mm F 2	100-240@50-60	27	Yes	4.2 x 2.6 x 1.4	6/16'	0.8	UL/CUL/TUV/CE	22.95	20.95	18.95	17.49
221577	Mean Well	GS40A15-P1J	+15/2.67	2.1mm x 5.5mm F 2	90-264@50-60	40	Yes	4.9 x 2.0 x 1.3	6/12'	0.8	UL/CUL/TUV/CE/CEC	25.95	24.49	22.95	21.49
1954295	Mean Well	GS60A15-P1J	+15/4.0	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 x 2.0 x 1.2	4/12'	0.7	UL/CUL/TUV/CE	28.95	26.95	24.95	22.95
2078320	Mean Well	GS90A15-P1M	+15/6.0	2.5mm x 5.5mm F 2	100-240@50-60	90	Yes	5.7 x 2.3 x 1.3	39/12'	0.8	UL/CUL/TUV/CEC	44.49	41.49	38.95	36.49
1940854	Mean Well	AS-120P-15	+15/6.7	4-pin DIN M	100-240@50-60	100	No	6.6 x 2.6 x 1.4	4/12'	1.2	UL/CUL/TUV/CE	58.95	54.95	51.95	48.95
2126117	Advanced Power	AI-36SG18-V2.1	+18/2.0	2.1mm x 5.5mm F 2	90-264@47-63	36	No	3.4 x 2.0 x 1.3	6/12'	0.5	UL/CUL/TUV/CE	29.95	26.95	24.25	21.95
243046	Mean Well	P66A-5P2JU	+18/3.66	2.1mm x 5.5mm F 2	100-240@50-60	66	Yes	5.8 x 3.0 x 1.7	6/16'	1.2	UL/CUL/TUV/CE	44.95	40.95	36.95	32.95
2099411	Sparkle Power	FSP090-DMCBI	+19/4.74	7 R/A plugs F 2†	100-240@50-60	90	No	5.3 x 2.3 x 1.3	6/15'	0.7	UL/CUL/TUV/CEC	59.95	53.95	47.95	42.95
2099761	Hi-Capacity	AC-C10K	+19/8.0	2.5mm x 5.5mm F 2	100-240@50-60	120	Yes	6.6 x 2.4 x 1.5	4/16'	1.0	UL/CUL/TUV/CE	49.95	44.95	39.95	35.95
1954279	Mean Well	GS15A-6P1J	+24/0.62	2.1mm x 5.5mm F 2	90-264@47-63	12	No	3.9 x 2.3 x 1.3	6/12'	0.4	UL/CUL/TUV/CEC	18.49	16.49	14.49	12.95
1940459	Mean Well	GS18A24-P1J	+24/0.75	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.7 x 2.1 x 1.4	6/12'	0.5	UL/CUL/TUV/CEC	15.95	14.49	13.49	12.49
1940635	Mean Well	GS25A24-P1JU	+24/1.04	2.1mm x 5.5mm F 2	100-240@50-60	25	No	3.7 x 2.1 x 1.4	6/16'	0.5	UL/CUL/TUV/CEC	18.95	16.95	14.95	13.49
380577	Mean Well	ES25A24-P1MU	+24/1.04	2.5mm x 5.5mm F 2	100-240@50-60	25	Yes	3.7 x 2.1 x 1.4	6/16'	0.6	UL/CSA/TUV/CE	19.95	17.95	15.95	13.95
229026	Phihong	PSC30U-240-R	+24/1.25	2.1mm x 5.5mm F 2	100-240@50-60	30	No	4.5 x 2.4 x 1.4	6/12'	0.5	UL/CUL/TUV/CE	26.95	24.95	22.95	21.49
1952353	Mean Well	GS40A24-P1J	+24/1.67	2.1mm x 5.5mm F 2	90-264@47-63	40	Yes	4.9 x 2.0 x 1.2	6/12'	0.7	UL/CUL/TUV/CEC	27.95	25.49	22.95	19.95
1537256	ReliaPro	OH1048A201700U-U	+24/1.7	2.5mm x 5.5mm F 2	90-264@47-63	40	Yes	4.5 x 2.0 x 1.3	6/12'	0.5	UL/CUL/CE	24.95	22.49	19.95	17.95
1940281	EDAC, Inc.	EA1050D	+24/2.08	2.1mm x 5.5mm F 2	100-240@50-60	50	Yes	4.7 x 2.4 x 1.4	4/12'	0.6	UL/CUL/TUV/CEC	24.95	22.49	19.95	17.95
1942788	EDAC, Inc.	EA1050B240	+24/2.5	2.1mm x 5.5mm F 2	100-240@50-60	60	Yes	4.8 x 2.4 x 1.4	6/12'	1.8	UL/CUL/TUV/CE/CEC	24.95	22.49	19.95	17.95
1952214	Mean Well	GS60A24-P1J	+24/2.5	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 x 2.0 x 1.3	6/12'	0.7	UL/CUL/TUV/CEC	28.95	26.95	24.95	22.95
1950913	EDAC, Inc.	EA1050B-240-1	+24/2.5	2.5mm x 5.5mm F 2	100-240@50-60	60	Yes	4.8 x 2.4 x 1.4	6/12'	1.8	UL/CUL/TUV/CE	29.95	26.95	24.95	22.95
2078338	Mean Well	GS90A24-P1M	+24/3.75	2.5mm x 5.5mm F 2	100-240@50-60	90	No	5.9 x 2.3 x 1.2	4/12'	0.9	UL/CUL/TUV/CEC	44.49	41.49	38.95	36.49
1940871	Mean Well	AS-120P-24	+24/5.0	2.5mm x 5.5mm F 2	100-240@50-60	120	No	6.6 x 2.6 x 1.4	4/12'	1.2	UL/CUL/TUV/CE	58.95	54.95	51.95	48.95
2099286	Mean Well	GS220A24-R7B	+24/9.2	4-pin DIN M	90-264/127-370@47-63	220	Yes	8.3 x 3.4 x 1.8	3.3/2	2.4	UL/CUL/TUV/CE/PFC	109.95	97.95	89.95	84.95
1707083	Mean Well	ES18A28-P1J	+28/0.64	2.1mm x 5.5mm F 2	100-264@47-63	18	Yes	3.7 x 2.1 x 1.4	6/12'	0.5	UL/CUL/TUV/CB/CE	12.95	10.95	9.49	8.49
1940643	Mean Well	GS25A28-P1JU	+28/0.89	2.1mm x 5.5mm F 2	100-240@50-60	25	No	3.7 x 2.1 x 1.4	6/16'	0.7	UL/CUL/TUV/CEC	18.95	16.95	14.95	13.49
1940475	Mean Well	GS18A48-P1J	+48/0.37	2.1mm x 5.5mm F 2	100-240@50-60	18	No	3.6 x 2.1 x 1.4	6/16'	0.5	UL/CUL/TUV/CEC	18.49	16.49	14.49	12.95
1940651	Mean Well	GS25A48-P1J	+48/0.52	2.1mm x 5.5mm F 2	100-240@50-60	25	No	3.7 x 2.1 x 1.4	6/12'	0.5	UL/CUL/TUV/CEC	16.49	14.95	13.49	12.49
229032	Phihong	PSA31U-480	+48/0.63	2.1mm x 5.5mm F 2	90-264@47-63	30	No	4.5 x 2.4 x 1.6	6/12'	0.5	UL/CUL/TUV/CE	19.95	18.95	17.95	16.95
221585	Mean Well	GS40A48-P1J	+48/0.84	2.1mm x 5.5mm F 2	100-240@50-60	40	Yes	4.9 x 2.0 x 1.3	6/16'	0.8	UL/CUL/TUV/CE	27.95	25.95	23.95	21.95
172065	Mean Well	SPU50-9U	+48/1.25	2.1mm x 5.5mm F 2	100-240@50-60	60	Yes	5.6 x 2.9 x 1.7	6/16'	1.3	UL/CSA/TUV	27.95	25.95	23.95	21.95
1952396	Mean Well	GS60A48-P1JU	+48/1.25	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 x 2.0 x 1.2	6/16'	0.7	UL/CUL/TUV/CE/CEC	28.95	26.95	24.95	22.95
3-Wire AC Input – Regulated Switching Table-Top – Double & Triple Output												* Web Code: TDO			
196270	Horizon	PSU25A13	+5/2.5, +12/1.0	4-pin mini DIN M	100-240@47-63	25	No	4.2 x 2.6 x 1.4	6/14'	1.2	UL/CUL/TUV/CE	\$34.95	\$31.49	\$28.95	\$25.95
2125501	Entone	SPU45E-201	+5/5.0, +12/2.0	4-pin mini DIN M	100-240@47-63	49	Yes	5.7 x 3.0 x 1.7	4/16'	1.2	UL/CUL/TUV/CE	39.95	35.95	32.95	29.95
221720	Mean Well	P25A14E-R1BU	+5/2.5, +15/0.3 -15/0.3	5-pin DIN M	100-240@50-60	25	Yes	4.3 x 2.6 x 1.4	6/12'	0.8	UL/CUL/TUV/CE	34.95	31.49	28.95	25.95
190960	Mean Well	P25A13D-R1B	+5/2.5, +12/0.8 -12/0.3	5-pin DIN M	100-240@50-60	26	Yes	4.1 x 2.6 x 1.4	6/12'	1.1	CUL/TUV/CE	39.95	35.95	32.95	29.95
221702	Mean Well	P50A13D-R1BU	+5/4.0, +12/2.0 -12/0.5	5-pin DIN M	100-240@50-60	50	Yes	5.7 x 3.0 x 1.7	4/12'	1.5	UL/CUL/TUV/CE	49.95	44.95	39.95	35.95
237367	Mean Well	P50A14E-R1B	+5/3.5, +15/1.2 -15/0.3	5-pin DIN M	100-240@47-63	42	Yes	5.8 x 3.0 x 1.7	4/12'	1.2	UL/CUL/TUV/CE	49.95	44.95	39.95	35.95

\* See accessory table-top power cord chart on page 119 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord

† Includes 7 DC right angle plugs (1.7 x 4.75, 1.7 x 5.5, 2.1 x 5.5, 2.5 x 5.5, 3.0 x 6.3, 4.3 x 6.5, 5.8mm x 6.5mm) for various notebook compatibility

✓ CEC Equivalent available. Add a "C" before part number for CEC version.

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 189.](#)





## Accessory Power Input Cords for Table-Top Power Supplies



Part No.	Ref. No. *	Description	Color	AWG	Certification	Cord Length	Wt. (lbs.)	Cord Type	1	10	50	100
189587	1	2-conductor power cord (Figure 8 style)	Black	18/2	UL/CSA	6'	0.3	SPT	\$2.69	\$2.39	\$2.19	\$1.95
38050	2	3-conductor power cord	Black	18/3	UL/CSA	6'	0.4	SVT	3.95	3.59	3.25	2.95
1953559	3	3-conductor flat power cord (Mickey Mouse style)	Black	18/3	UL/CSA	6'	0.4	SPT-2	2.95	2.65	2.39	1.95
1951123	3	3-conductor round power cord (Mickey Mouse style)	Black	18/3	UL/CSA	6'	0.4	SVT	4.95	4.49	3.95	3.49

\*These reference numbers for "AC cord needed" for Table-Top Power Supplies on pages 116-118

More Power Cords on page 124

## valleman 24-Watt Switching Table-Top Power Supply

### Interchangeable AC & DC Plugs with Selected DC Outputs

- Input voltage: 100-240VAC @ 50-60Hz
- Output current: 2A
- Output connectors: 2.5mm & 3.5mm male, 1mm x 3mm, 2.1mm x 5mm, 2.5mm x 5mm, 1.35mm x 3.5mm & 1.7mm x 4mm
- Interchangeable AC input plugs for USA/UK/Europe/Taiwan/China (included)
- Selectable outputs: 3VDC, 4.5VDC, 6VDC, 7.5VDC, 9VDC, 12VDC



Part No.	Mfr. Part No.	Size (L x W x H)	1	10	25
1537491	PSSMV3	4.7" x 3.3" x 2.5" .....	\$39.95	\$35.95	\$32.95

## valleman 36-Watt Switching Table-Top Power Supply

- Output voltage: 5VDC to 24VDC in 1V increments
- Output connectors: 2.5mm & 3.5mm male, 1mm x 3mm, 1.35mm x 3.5mm, 1.5mm x 5mm, 1.7mm x 4mm, 2.1mm x 5mm & 2.5mm x 5mm
- Stabilized outputs, low ripple & interference
- High efficiency, low energy consumption
- Input voltage: 100-240VAC @ 50/60Hz
- Short-circuit, overload protection • LED power indicator



Includes: AC power cord

Part No.	Mfr. Part No.	Output Current	Size (L x W x H)	1	10	25
1537521	PSSMV7U	1.5A to 4A	3.5" x 1.8" x 1.2" ...	\$49.95	\$44.95	\$39.95

## GlobTek® AC-to-DC Medical Table-Top Regulated Switching Power Supplies

- 2.5mm x 5.5mm female center positive
- Input voltage: 90-264VAC @ 47-63Hz
- Leakage current: 0.1mA max.
- Regulation (line & load): ±5%
- Isolation voltage: 4,000VAC
- 3-wire AC input
- Ripple & noise: 1% or 100mV, whichever is smaller
- Cord lengths: DC: 6'; AC: not included use P/N 115078, pg 124
- Size: 2.9"L x 2.0"W x 1.6"H



Part No.	Mfr. Part No.	Power (W)	Output VDC/Amps	Pricing			
				1	10	25	100
230683	TR9CE1250CP	15.6	+12/1.3	\$44.95	\$39.95	\$29.95	\$24.95
230763	TR9CE4000LCP	49.2	+12/4.1	59.95	53.95	47.95	42.95
230772	TR9CG3333LCP	49.5	+15/3.3	49.95	44.95	39.95	35.95
230798	TR9CI2100LCP	50.4	+24/2.1	59.95	53.95	47.95	42.95

\*Interchangeable Power Supplies, Adapters and Tips — Enter Web Code NBH

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## 5VDC@0.5A Interchangeable Wall Plug Adapter

### With USB Socket Type A

- Voltage output: 5VDC @ 0.5A
- Voltage input: 90-264VAC @ 47-63Hz
- Efficiency: 55% (typical)
- Leakage current: 0.20µA max. • UL/CUL/TUV/CE approved
- Size: 2.97"L x 1.81"W x 1.25"H • Wall plug clips not included



Part No.	Product No.	1	10	50	100
662805	PSC30R-050	\$10.95	\$9.95	\$8.95	\$7.95

## USB-A Power Cable with Interchangeable Tips

- 4' cable • 26 AWG
- USB-A male connector • UL/CSA approved
- Tips: 1.3mm x 5.5mm female, 1.5mm x 4.8mm female, 1.7mm x 4.8mm female, 2.1mm x 5.5mm female, 2.5mm x 5.5mm female, 2.9mm x 6.3mm female, 1.3mm x 3.3mm female, and 1.3mm x 4.3mm female
- For use with P/N 662805 wall adapter (see above)



Part No.	Product No.	1	10	50	100
2081625	USBAC8 .....	\$6.95	\$5.95	\$4.95	\$3.95

## Cigarette Lighter Car Power Adapter

- Switch selectable 1.5V, 3V, 4.5V, 5V, 6V, 9V and 12V
- DC power plugs: 2.5mm x 5mm, 2.1mm x 5mm, 1.5mm x 5mm, 1.7mm x 4mm, 1.3mm x 3.5mm and 0.7mm x 2.35mm
- Powers portable electronic devices such as MP3 players, cell phones, etc.
- Switching power supply provides 1000mA from cigarette lighter plug
- Reversible plug for center positive or negative polarity



Part No.	Mfr. Part No.	1	10	50	100
155230	JCD22A .....	\$14.95	\$12.95	\$9.95	\$8.95

## Auto/Air Cigarette DC/DC Power Adapter

- Input voltage: 11VDC to 16VDC @ 10A max.
- Input connector: cigarette plug, fused (15A @ 250V)
- Output connector: interchangeable tips of 2.1mm F, 2.5mm F, 3.5mm M
- Input/output cord length: 42"/48"
- Color: black with LED power indicator
- Size: 4.7"L x 2.0"W x 1.0"H



Part No.	Product No.	1	10	50	100
2099770	AA-5001G .....	\$19.95	\$17.95	\$15.95	\$14.49

## Wagan Cell Phone/PDA Travel Adapter

### Provides Both DC & USB Power

Converts any car charger into a wall adapter by simply plugging the adapter into the wall and car charger into the DC port. It's universal for all cell phone brands when used with your car charger. It's also suitable for any PDA or MP3 player by utilizing the USB port.

- DC: 12V @ 500mA • USB: 5V @ 500mA
- Fuse protected • Space saving folding design



Part No.	Description	1	10
2096051	AC to DC power adapter .....	\$14.95	\$13.49

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Power Plugs, Adapters & Jacks

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE



## DC Power Plugs & Adapters



★ Web Code: MFP

Part No.	Mfr.	Product No.	Fig.	Description (Barrel) Plug ID x OD x L (mm)	Strain Relief ID x L (mm)	1	10	100
71192	ValuePro	PP137R	1	F plug, 1.3 x 3.5 x 9.5	4.1 x 12 (black)	\$.79	\$.69	\$.65
1537395	ValuePro	PL-005R	2	F plug, 1.3 x 3.5 x 9.4 (rt. angle)	2.8 x 11	.95	.85	.75
2098013	ValuePro	DCP-111R	1	F plug, 1.7 x 5.5 x 9.8	4.6 x 12 (black)	.95	.85	.75
191484	ValuePro	PP049W	1	F plug, 2.1 x 5.5 x 9.0	4.6 x 12.5 (white)	.69	.59	.55
2004890	ValuePro	PP049S	1	F plug, 2.1 x 5.5 x 9.5	4.5 x 12.5 (black)	.79	.69	.65
297617	Switchcraft	S760R	3	F plug, 2.1 x 5.5 x 9.5	5.5 x 25 (black)	3.95	3.49	2.95
28760	ValuePro	PP049R	1	F plug, 2.1 x 5.5 x 10 (P205)	4.1 x 12 (black)	.79	.69	.55
138587	ValuePro	PJ021R	2	F plug, 2.1 x 5.5 x 12 (rt. angle)	2.8 x 11 (black)	.89	.79	.65
147329	ValuePro	PP049LR	1	F plug, 2.1 x 5.5 x 14 (P205L)	4.3 x 12 (black)	.89	.79	.65
190538	ValuePro	PP109S	1	F plug, 2.5 x 5.5 x 9.5	4.7 x 13 (black)	.59	.55	.49
281877	Switchcraft	760R	3	F plug, 2.5 x 5.5 x 9.5	5.5 x 25 (black)	3.49	3.15	2.49
28768	ValuePro	PP109R	1	F plug, 2.5 x 5.5 x 10 (P206)	4.7 x 13 (black)	.79	.69	.59
147336	ValuePro	PP109LR	1	F plug, 2.5 x 5.5 x 14 (P206L)	4.2 x 12 (black)	.79	.69	.59
168242	ValuePro	PP109NR	3	F plug, 2.5 x 5.5 x 14	3.9 x 22 (black)	.69	.59	.55
2099163	ValuePro	PL-008R	2	F plug, 2.5 x 5.5 x 9.5 (rt. angle)	2.8 x 11	.95	.85	.75
101135	ValuePro	PJ1025	4	M plug, — x 2.5 x 11 (P201)	4.3 x 13 (black)	.79	.69	.55
231176	ValuePro	AP-340R	4	M plug, — x 3.5 x 14 (stereo)	4.3 x 13.5 (black)	.79	.69	.55
231167	ValuePro	AP-343	5	M plug, — x 3.5 x 14 (stereo)	4.4 x 13 (metal)	1.49	1.25	.99
231160	ValuePro	PJ1035R	5	M plug, — x 3.5 x 14 (mono)	4.8 x 13.5 (metal)	1.49	1.25	.99
101152	ValuePro	PJ1035S	4	M plug, — x 3.5 x 14.5 (P202)	4.0 x 13 (black)	.69	.59	.49
2113703	ValuePro	JR1826R	6	Adapter, 2.1mm M to 1.7mm F (1.7"L)	—	1.49	1.25	.99
2112989	ValuePro	JP1828C	6	Adapter, 2.1mm M to 1.3mm F (1.3"L)	—	1.25	1.09	.99
1953591	ValuePro	DCJ2.1-DCP2.5R	6	Adapter, 2.1mm M to 2.5mm F (1.4"L)	—	1.49	1.25	.99
2113009	ValuePro	JP1829R	6	Adapter, 2.5mm M to 1.3mm F (1.3"L)	—	1.25	1.09	.99
2113711	ValuePro	Jr1827R	6	Adapter, 2.5mm M to 1.7mm F (1.7"L)	—	1.49	1.25	.99
1953604	ValuePro	DCJ2.5-DCP2.1R	6	Adapter, 2.5mm M to 2.1mm F (1.4"L)	—	1.49	1.25	.99

### DC Cords with Pigtail – 6' length

Part No.	Mfr.	Cross Ref. No.	Fig.	Description (Barrel) ID x OD x L (mm)	AWG	1	10	100
2113674	ValuePro	DCCORD1.3R	7	Plug, 1.3 x 3.5 x 12	24 (black)	\$1.25	\$1.09	\$.99
2114693	ValuePro	DCCORD1.7R	8	Jack, 1.7 x 2.5 x 12	24 (black)	1.25	1.09	.99
2114706	ValuePro	6FT*245.5X1.7R	7	Plug, 1.7 x 2.5 x 12	24 (black)	1.25	1.09	.99
2096763	ValuePro	DCCORD2.1R	7	Plug, 2.1 x 5.5 x 12	24 (black)	1.59	1.39	1.15
2114600	ValuePro	6FT*245.5X2.1R	8	Jack, 2.1 x 5.5 x 12	24 (black)	1.59	1.39	1.15
2096771	ValuePro	DCCORD2.5R	7	Plug, 2.5 x 5.5 x 12	24 (black)	1.59	1.39	1.15
2114597	ValuePro	6FT*245.5X2.5R	8	Jack, 2.5 x 5.5 x 12	24 (black)	1.59	1.39	1.15

### DC Extension Power Cables

Part No.	Mfr.	Description	Fig.	Dimensions H x W x D (mm)	Type/ Mount	Circuit/ Terminal	Mating Plug (see right)	1	10	100
2099147	ValuePro	DCEXTCORD2.1- 3FTR	9	2.1F x 2.1M x 3' cable	18 (black)			\$1.75	\$1.49	\$1.25
2099121	ValuePro	DCEXTCORD2.1- 6FTR	9	2.1F x 2.1M x 6' cable	18 (black)			1.95	1.75	1.49
2099155	ValuePro	DCEXTCORD2.5- 3FTR	9	2.5F x 2.5M x 3' cable	18 (black)			1.75	1.49	1.25
2099139	ValuePro	DCEXTCORD2.5- 6FTR	9	2.5F x 2.5M x 6' cable	18 (black)			1.95	1.75	1.49

## Male & Female Power Jacks

								Solder eyelet		B
Part No.	Mfr.	Product No.	Description	Dimensions H x W x D (mm)	Type/ Mount	Circuit/ Terminal	Mating Plug (see right)	PC board		
								1	10	100
101194	Various	PP024R	1.3mm male	6.0 x 6.0 x 9.0	1/D	1/B	1.3 mm F	\$.59	\$.55	\$.45
101178	Various	PP014	2.1mm male	10.9 x 9.0 x 14.5	2/D	1/A	2.1 mm F	.39	.35	.29
101179	ValuePro	PP014R	2.1mm male	10.9 x 9.0 x 14.5	2/D	1/A	2.1 mm F	.45	.39	.35
137673	Various	PP013R	2.1mm male	10.9 x 9.0 x 14.5	3/D	4/A	2.1 mm F	.45	.39	.35
151590	Various	DPJ-021AR	2.1mm male	18.0 x 12.6 Dia.	4/C†	1/A	2.1 mm F	.89	.79	.69
151555	ValuePro	DPJ-026R	2.1mm male	21.0 x 8.0 Dia.	5/E	1/A	2.1 mm F	1.49	1.35	1.19
159611	Various	PJ1014AR	2.1mm male	57.5 x 12.6 Dia.	6/F	3/A	2.1 mm F	1.75	1.59	1.39
281851	Switchcraft	722AR	2.1mm male	15.1 x 7.5 Dia.	7/C	1/A	2.1 mm F	2.75	2.49	2.25
207714	Various	HEC0470	2.5 mm male	11.0 x 9.0 x 14.5	2/D	1/B	2.5 mm F	.55	.49	.39
101186	Various	PP014A	2.5 mm male	11.0 x 9.0 x 14.5	2/D	1/A	2.5 mm F	.49	.45	.29
101187	ValuePro	PP014AR	2.5 mm male	11.0 x 9.0 x 14.5	2/D	1/A	2.5 mm F	.55	.49	.45
151563	Various	DPJ-026AR	2.5 mm male	15.1 x 8.0 Dia.	5/E	1/A	2.5 mm F	1.49	1.35	1.19
159506	Various	PJ1015AR	2.5 mm male	57.5 x 12.6 Dia.	6/F	3/A	2.5 mm F	1.49	1.35	1.19
202358	Various	HD2388	2.5 mm male	12.4 x 7.7 Dia.	8/C*	3/A	2.5 mm F	1.19	.99	.89
2100355	Switchcraft	HE2388M	2.5 mm male	17.1 x 10.9 Dia.	8/C**	4/A	2.5 mm F	1.49	1.35	1.19
281842	Switchcraft	712AR	2.5 mm male	15.8 x 7.5 Dia.	7/C	1/A	2.5 mm F	3.95	3.39	2.95
297553	Switchcraft	PC712AR	2.5 mm male	23.3 x 11.0 Dia.	9/D	1/A	2.5 mm F	3.95	3.39	2.95
297529	Switchcraft	L712AR	2.5 mm male	23.3 x 11.0 Dia.	10/C	1/A	2.5 mm F	3.95	3.39	2.95
101143	ValuePro	PJ035R	3.5 mm female	10.0 x 10.0 x 18.5	11/E	2/A	3.5 mm M	.39	.35	.29
109496	ValuePro	PJ035PMR	3.5 mm female	10.5 x 9.0 x 20.0	12/C	2/A	3.5 mm M	.49	.45	.39
165730	ValuePro	PJ035AR	3.5 mm female	15.5 x 5.9 Dia.	13/C	3/A	3.5 mm M	.79	.69	.59

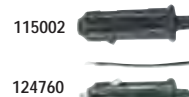
† Center offset \*Plastic \*\*Metal

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.



## Automobile Fused Power Plugs with Cords

- Accepts .25" x 1.25" fuse
- 115002: Screw assembly w/ strain relief (no cord)
- 124760: 3' cord w/ pigtail
- 105064: 12' cord w/ pigtail



Part No.	Mfr.	Fuse	1	10	100
115002	ValuePro	5A/250VACR	\$2.25	\$1.99	\$1.79
124760	ValuePro	3A/250VACR	2.49	2.25	1.99
105064	Various	2A/250VAC	1.95	1.75	1.39

## We're Listening to What You Need

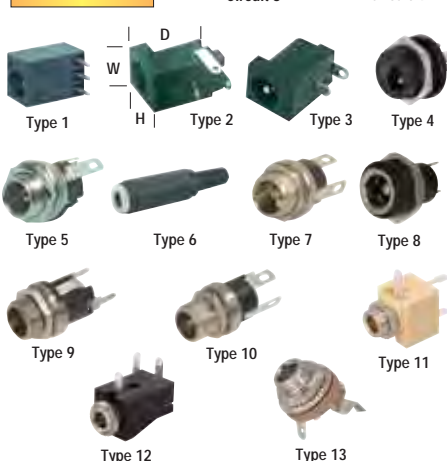
Our goal is to provide you with more of what you want. Let us know how we can better serve your electronic needs.

Send feedback to

Management@Jameco.com.

Mounting	Code
Panel	C
PCB	D
Panel & PCB	E
Cable	F

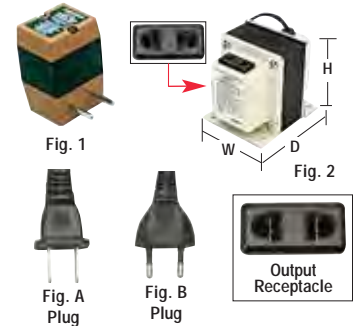
★ Web Code: BAM



## International Step-Up & Step-Down Transformers

★ Web Code: RAL

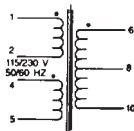
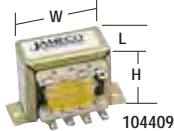
Part No.	Product No. *	Fig.	Type	Volt Step	Primary Voltage	Secondary Voltage	Power (VA)	Dimensions			Wt. (lbs.)	Pricing		
								H"	W"	D"		1	10	25
85008	GPC-1003R	2/A	Auto	Up	110VAC	220VAC	300	3.50	3.05	3.95	4.8	\$39.95	\$35.95	\$31.95
221331	GIS-500	2/A	Isolation	—	115VAC	115VAC	500	4.69	3.75	6.00	16.0	59.95	53.95	48.95
221217	P8689	2/A	Auto	Up	115VAC	230VAC	1000	4.63	3.75	6.13	17.0	79.95	71.95	64.95
99573	GS50R	1/B	Auto	Down	220VAC	110VAC	50	2.50	1.63	1.33	0.7	9.95	8.95	7.95
85016	GPC1003	2/B	Auto	Down	220VAC	110VAC	300	3.50	3.05	3.95	4.8	39.95	35.95	31.95
111851	GPC1005	2/B	Auto	Down	220VAC	110VAC	500	3.99	3.60	4.84	8.5	69.95	62.95	56.95
222092	GISD-1000	2/A	Auto	Down	220VAC	110VAC	1000	5.38	4.38	8.13	31.0	79.95	71.95	64.95
142906	GPC1015	2/B	Auto	Down	220VAC	110VAC	1500	5.25	4.50	5.75	15.2	99.95	89.95	79.95



## Quick-Connect Power Transformers

★ Web Code: BAN

- Input voltage: 115/230VAC, 50-60Hz
- Terminals: quick-connect, solder



Part No.	Product No.	Triad Cross *	Input Voltage	Output Voltage	VA	Size of Connect	Dimensions			Wt. (lbs.)	Pricing		
							L"	W"	H"		1	10	25
104387	XFR1225Q	FD612	115/230VAC	12.6VCT @ 2.5A	31.5	0.187"	1.75	2.33	2.00	1.3	\$11.95	\$10.95	\$9.95
104409	XFR1635Q	FD716†	115/230VAC	16VCT @ 3.5A	56.0	0.141"	2.25	2.68	2.33	1.8	15.95	14.49	12.95
101864	XFR2424Q	FD724	115/230VAC	24VCT @ 2.4A	57.6	0.141"	2.10	2.70	2.29	1.7	12.95	11.49	9.95
104417	XFR3615Q	FD736	115/230VAC	36VCT @ 1.5A	54.0	0.141"	2.30	2.70	2.30	1.8	15.95	14.49	12.95

† Terminal solder lugs are on same side

\* Triad cross is for reference only

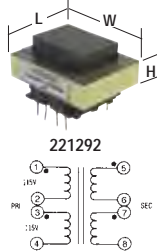
## Split-Bobbin Power Transformers (2.5 to 19.2VA)

★ Web Code: LBK

Non-concentrically wound with primaries and secondaries side-by-side providing low capacitive coupling.

- Primary: 115/230VAC, 50-60Hz
- PC terminal pin spacing for accurate placement

\* Triad cross is for reference only



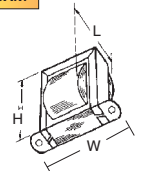
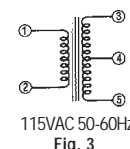
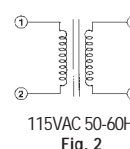
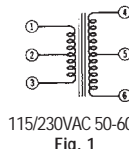
Part No.	Product No.	Triad Cross *	Input Voltage	VA	Individual Output	Parallel Output	Series Output	Dimensions			Wt. (lbs.)	Pricing		
								L"	W"	H"		1	10	100
221292	DSW-312	FS12200	115/230	2.5	6.3V @ .20A	6.3V @ .40A	12.6VCT @ .20A	1.38	1.13	1.19	0.3	\$6.95	\$6.25	\$5.59
102534	XFR1205SB	FS12500	115/230	6.3	6.3V @ .50A	6.3V @ 1.0A	12.6VCT @ .50A	1.32	1.64	1.38	0.4	7.95	6.95	6.25
102518	XFR1602SB	FS16150	115/230	2.4	8V @ .15A	8V @ .30A	16VCT @ .15A	1.17	1.40	1.20	0.3	4.95	4.49	3.95
116089	14A-2.5R-2Y	Signal	118/230	2.5	12V @ .20A	12V @ .40A	24VCT @ .10A	1.62	1.31	1.12	0.25	5.95	5.35	4.79
102593	XFR2405SB	FS24500	115/230	12.0	12V @ .50A	12V @ 1.0A	24VCT @ .50A	1.58	1.90	1.46	0.7	7.95	6.95	5.95
209015	ST-6-48	—	115	19.2	24V @ .40A	24V @ .80A	48VCT @ .40A	1.88	2.25	1.40	0.8	5.95	5.35	4.79

## Power Transformers (7.6 to 288VA)

★ Web Code: JAM

Power transformers have both single and dual-voltage input and center-tapped outputs. This makes them the perfect choice for power supply design or for use in transformer, rectifier and filter circuits.

- Primary: 115VAC or 115/230VAC, 50-60Hz



Part No.	Product No.	Triad Cross <sup>#</sup>	Primary Color Code			VA	Secondary			Lead Type	Fig.	Dimensions			Wt. (lbs.)	Pricing			
							Voltage		Color Code			L"	W"	H"		1	10	100	
102163	XFR6102 <sup>Ⓜ</sup>	F314X	Black	Yellow <sup>*</sup>	Red	7.6	6.3VCT @ 1.2A	White	Black <sup>*</sup>	White	Wire	1	1.84	2.40	1.67	0.8	\$6.95	\$6.25	\$4.95
105524	XR082-91-R <sup>Ⓜ</sup>	—	Black	White <sup>*</sup>	Red	9.0	9VCT @ 1A	Blue	Black <sup>*</sup>	Blue	Wire	1	1.82	2.43	1.67	0.7	6.95	5.95	4.95
221400	P-8657 <sup>Ⓜ</sup>	F218X	Black	—	Black	24.0	12VAC @ 2A	White	—	White	Wire	2	1.89	2.75	1.99	1.3	9.95	8.95	7.95
221356	P-8658	F219X	Black	—	Black	48.0	12VAC @ 4A	White	—	White	Wire	2	2.25	4.00	2.63	2.3	12.95	11.49	8.95
29226	XFR122 <sup>Ⓜ</sup>	F44X	Yellow	—	Yellow	25.2	12.6VCT @ 2A	Blue	Red <sup>*</sup>	Black	Wire	3	2.41	2.79	1.99	1.5	13.95	12.49	9.95
102155	XFR1220 <sup>Ⓜ</sup>	F344X	Black	Yellow <sup>*</sup>	Red	25.2	12.6VCT @ 2A	White	Black <sup>*</sup>	White	Wire	1	2.35	2.32	1.97	1.5	13.95	12.49	9.95
149771	XFR1240 <sup>Ⓜ</sup>	F3181U	Black	Red <sup>*</sup>	Yellow	50.4	12.6VCT @ 4A	White	Black <sup>*</sup>	White	Wire	1	2.45	3.20	2.25	2.2	14.95	13.49	10.95
102121	XFR124 <sup>Ⓜ</sup>	F181U	Black	—	Black	50.4	12.6VCT @ 4A	White	Black <sup>*</sup>	White	Wire	3	2.45	3.21	2.26	2.7	14.95	13.49	10.95
105532	XFR1810 <sup>Ⓜ</sup>	—	Blue	Red <sup>*</sup>	Black	18.0	18VCT @ 1A	Yellow	Black <sup>*</sup>	Yellow	Wire	1	2.20	2.81	1.99	1.2	9.95	8.95	6.95
149957	XFR1820 <sup>Ⓜ</sup>	—	Black	Red <sup>*</sup>	Yellow	36.0	18VCT @ 2A	White	Black <sup>*</sup>	White	Wire	1	2.25	3.15	2.71	1.8	11.95	10.95	8.95
221382	P8396 <sup>Ⓜ</sup>	—	Black	—	Black	9.6	24VCT @ 0.4A	White	Black <sup>*</sup>	White	Wire	3	1.63	2.80	1.97	0.6	7.95	6.95	5.95
102112	XFR2410 <sup>Ⓜ</sup>	F346X	Black	Yellow <sup>*</sup>	Red	24.0	24VCT @ 1A	White	Black <sup>*</sup>	White	Wire	1	2.41	2.80	1.99	1.5	10.95	9.95	7.95
221373	P-8662 <sup>Ⓜ</sup>	F192X	Black	—	Black	48.0	24VCT @ 2A	White	Black <sup>*</sup>	White	Wire	3	2.44	3.60	2.23	2.3	13.95	12.49	9.95
112513	XFR242N <sup>Ⓜ</sup>	F229X	Black	—	Black	48.0	24VAC @ 2A	White	—	White	Wire	2	2.33	3.16	2.28	1.8	13.95	12.49	9.95
221365	P-8663 <sup>Ⓜ</sup> ↑	F193U	—	—	—	96.0	24VCT @ 4A	—	—	—	Lug	3	2.81	2.94	4.00	4.0	19.95	17.95	15.95
221411	P-8666 <sup>Ⓜ</sup> ↑	F226U	—	—	—	288.0	24VCT @ 12A	—	—	—	Lug	3	4.63	3.75	4.63	11.2	54.95	49.95	44.95
99654	XFR242 <sup>Ⓜ</sup>	—	Red	—	Red	49.2	24.6VCT @ 2A	Blue	Yellow <sup>*</sup>	Blue	Wire	3	2.44	3.22	2.30	2.5	13.95	12.49	9.95
102104	XFR2520 <sup>Ⓜ</sup>	F341X	Black	White <sup>*</sup>	Red	50.4	25.2VCT @ 2A	Orange	Black <sup>*</sup>	Orange	Wire	1	2.45	3.22	2.26	2.8	13.95	12.49	9.95
149797	XFR2820 <sup>Ⓜ</sup>	F3185U	Black	Red <sup>*</sup>	Yellow	56.0	28VCT @ 2A	White	Black <sup>*</sup>	White	Wire	1	2.45	3.22	2.26	2.3	13.95	12.49	9.95

† Solder terminals

\* Center tap

# Triad cross is for reference only

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## PC Mount Modem Coupling Transformers

125357: • Core type: EI-14

- Insulation resistance: 100MΩ
- ±20% impedance matching and DC resistance matching
- Hipot tested: 1000VAC • Vacuum wax impregnated

117760:

- Dielectric strength: 1250VAC • Insertion loss: 2.50dB @ 1kHz



Part No.	Product No.	Impedance (Ω)		Resistance (Ω)		Pricing		
		Primary	Secondary	Primary	Secondary	1	10	100
125357	XFR6006A14-R	600CT	600CT	65	55	\$2.25	\$1.95	\$1.75
117760	671-8014	600	600	108	120	2.95	2.75	2.49

## TRIAD Low Frequency Current Sensing Transformer

May be used to monitor current 0.1-30A @ frequencies 50-400Hz.

- Turns ratio: 1:500 • Typical output: 110mV/amp
- Hi-pot: 500V • Burden resistor: 60Ω

Part No.	Mfr. Part No.	Sen DCR	Primary DCR	1	10	100
627591	CSE187L	21Ω max.	250μΩ max.	\$3.95	\$3.49	\$2.95

## TRIAD Current Sensing Transformer

- Frequency range: 20-200kHz • Min. inductance: 3.5mH
- Primary is inserted thru hole in casing
- Arrow side of primary conductor has same polarity as pin #1

Part No.	Mfr. Part No.	DCR	Primary Arms	1	10	100
627621	CST306-1A	0.34Ω max.	35	\$3.95	\$3.59	\$3.25

## 500 to 2000VA Variable Transformers

- Input: 110VAC or 220VAC
- Power: 500, 1000 or 2000VA
- Output: 0-240VAC
- Banana/screw input terminals
- Universal US/European output plugs
- Lighted on/off power switch



Part No.	Fuse	Size (W" x D" x H")	Wt. (lbs.)
121276	3A/250V (P/N 69439)	5.3 x 7.3 x 7.0	10.4
129008	5A/250V	9.4 x 6.5 x 7.7	14.8
152582	10A/250V (P/N 69462)	9.0 x 7.0 x 7.7	19.8

Part No.	Description	1	5	25
121276	500VA trans. R	\$109.95	\$99.95	\$89.95
129008	1000VA trans. R	139.95	124.95	114.95
152582	2000VA trans. R	219.95	199.95	179.95

## 320VA Variable AC Transformer

- Input voltage: 110VAC @ 50-60Hz
- Matching input/output terminals: P/N 103668 & 109112 (disconnect .25" solderless terminals), pg 81
- Maximum current: 2.5A
- Shaft length: 0.5"
- Size: 2.8"Dia. x 2.1"H • Panel mount
- Weight: 2.5 lbs. • One-year warranty



Includes: 3 disconnect .25" solderless terminals

Part No.	Product No.	1	5	25
149324	PSV-203-R-R	\$59.95	\$53.95	\$47.95

\*Variable Transformers Online — Enter Web Code MAR

## 6kV-7.4kV High Voltage Power Supply

- Input voltage range: 113VAC to 132VAC
- Input lead wires: 22 AWG UL1015, 7.5"L; AC hot (black), AC COM (white), HV RTN (green)
- Output voltage: 6.0kV to 7.4kV A@ 120VAC
- Output lead wires: 22 AWG UL3239, 10" (pink)
- UL94V-0 rated encapsulant filled epoxy • Size: 3.0"L x 1.2"W x 1.0"H



Part No.	Product No.	Description	1	10	50	100
2100136	CS2080A3	High voltage power supply	\$10.95	\$9.95	\$8.95	\$7.95

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

## TRIAD PC Mount Data/Voice Dual Transformer

- Frequency range: data voice: 300 – 3500Hz; data: 800 to 3500Hz
- Trans-hybrid loss: 50dB
- Dielectric strength FCC68.304: 1500V • Power level: -45dBm to +7dBm
- Meets FCC part 68.310: 60dB min., 200-1000Hz; 45dB min., 1000-4000Hz



Part No.	Mfr. Part No.	Impedance (Ω)		DC Current (mA) max.	Typical Loss dB		Pricing		
		Primary	Secondary		Insertion	Return	1	10	50
630475	TY-300P	600 (4W)	600/600	0	0.8	30	\$5.95	\$5.35	\$4.79

## TRIAD PC Mount Audio Transformer

- Impedance matching: 10% over frequency range
- 6-pin PC mount • Output: 100mW
- Impedance (Ω): 600CT/600CT
- Primary DC Unbalance: 15mA



Part No.	Mfr. Part No.	Dimensions (W x D x H)	1	10	100
630459	TY-145P-R	13/16" x 9/32" x 5/8"	\$3.95	\$3.49	\$2.95

## Current Sensing Transformer

- Frequency range: 10-50 kHz
- Inductance: 5mH
- Sensitivity current (I<sub>in</sub>): 1A
- Terminating resistor: 50Ω
- Turns: 60
- Sensitivity voltage (V<sub>out</sub>): 1V
- Max. current: 300mA



Part No.	Product No.	Dimensions (W x D x H)	1	10	100
164718	MTC30101	0.7" x 0.46" x 0.8"	\$2.49	\$2.25	\$1.95

\*Audio Transformers Online — Enter Web Code SAJ

## Class 1 Current Transformer

- Maximum voltage: 660VAC
- Frequency: 50-60Hz
- Ratio: 200A/5A; 5VA
- Size: 2.95"W x 1.70"D x 3.36"H
- Weight: 1.1 lbs. • Power: 5VA



Part No.	Product No.	1	10	100
174887	MSQ30	\$7.95	\$6.95	\$6.25

## 300VA Isolation Transformer 120VAC to 120VAC

- Input connector: 5.5' cord with 2-prong plug
- Input voltage: 120VAC @ 60Hz
- Output voltage: 120VAC @ 2.5A (isolated)
- Size: 3.2"W x 4.6"D x 4.2"H • Weight: 7.0 lbs.



Part No.	Product No.	1	5	25
181315	ITR300	\$39.95	\$35.95	\$31.95

## 550VA Variable AC Transformer

- Input voltage: 110VAC @ 60Hz
- Output voltage: 0-140VAC
- Rated current: 5A • Panel mount
- Input/output terminals: binding post with 0.188" diameter post
- Size: 4.3"Dia. x 4.0"H
- Weight: 6.8 lbs.
- One-year warranty



Part No.	Product No.	1	5	25
152937	PSV-264-R-R	\$109.95	\$99.95	\$89.95

## EMI Suppression Cores with Case

Reduce Electromagnetic Interference (EMI) with a snap of these suppression cores around a power cord or data cord. Easy to install and an affordable way to reduce EMI without redesigning your product.



- Impedance at 100MHz between 75-225Ω min.
- Color: black (except P/N 2095402: white)

### Round

Part No.	InDia.	OutDia.	Length	1	10	100
218174 R	.20"	.64"	1.15"	\$1.25	\$ .99	\$ .75
2095402	.30"	.78"	0.77"	1.19	.99	.79
217842 R	.34"	.78"	1.40"	1.49	1.25	.99
2081810	.38"	1.0"	0.65"	1.19	.99	.79

### Square

Part No.	InDia.	Width	Height	Length	1	10	100
2094987 R	.20"	.55"	.59"	1.40"	\$ .99	\$ .85	\$ .75
1952901	.25"	.70"	.77"	1.30"	1.49	1.19	.99
1536958 R	.40"	.87"	.87"	1.27"	1.49	1.19	.99

## International Step-Up/Step-Down Autotransformer

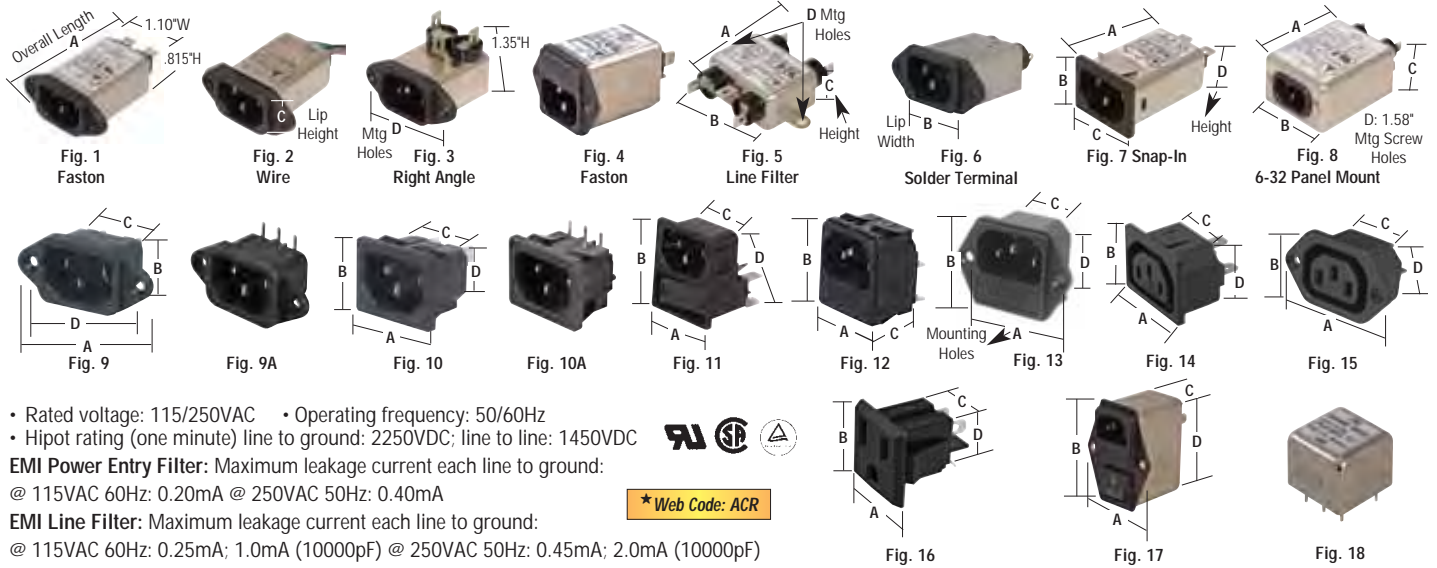
- Input voltage: 110/200/220/240V
- Output voltage: 110/220V
- Power: 80 watts continuous/ 100 watts intermittent
- On/off switch
- Fuse protected
- Two free spare fuses • CE certification
- European to US adapter on power cable
- Universal European/US output receptacles
- Dimension: 5.2"L x 3.7"W x 3.5"H



Part No.	Product No.	1	10	25
2082599	VC-100	\$12.95	\$11.95	\$10.95

# Power Entry & Line Filters & AC Receptacles

## EMI Power Entry Filters (IEC Connector), Line Filters & AC Receptacles (IEC 320)



- Rated voltage: 115/250VAC • Operating frequency: 50/60Hz
- Hipot rating (one minute) line to ground: 2250VDC; line to line: 1450VDC
- EMI Power Entry Filter: Maximum leakage current each line to ground:  
@ 115VAC 60Hz: 0.20mA @ 250VAC 50Hz: 0.40mA
- EMI Line Filter: Maximum leakage current each line to ground:  
@ 115VAC 60Hz: 0.25mA; 1.0mA (10000pF) @ 250VAC 50Hz: 0.45mA; 2.0mA (10000pF)

\*Web Code: ACR

Part No.	Mfr.	Product No.	Description	Fig.	Current (A)	Hipot (VDC)	Terminals	Terminal Size	Agency Approvals	Dimension (in.)				Pricing		
										A	B	C	D	1	10	100
1951511	Delta†	01GEEG3E (1ED1)	Power entry filter, straight (screw flanged)	1	1	2250	Faston	0.25"	UL/CSA/VDE	2.20	1.19	0.87	1.58	\$3.49	\$2.95	\$2.49
210913	Delta†	01GEEW3E (1ED8)	Power entry filter, straight (screw flanged)	2	1	2250	4" Wires	Wire	UL/CSA/VDE	1.89	1.19	0.86	1.58	2.95	2.49	1.95
1951529	Delta	01DEEG3V	Power entry filter, rt. angle (screw flanged)	3	1	2250	Faston	0.25"	UL/CSA/VDE	1.64	1.19	0.87	1.58	2.49	1.95	1.75
1172613	Tyco	1EGG1-2R	Pwr entry filter, straight, fused (screw flanged)	4	1	2250	Faston	0.25"	UL/CSA/VDE	1.62	1.29	1.44	1.27	2.49	1.95	1.75
1951545	Delta	01DKAG5	Line filter	5	1	2250	Faston	0.25"	UL/CSA/VDE	2.92	1.98	0.87	2.39	2.95	2.49	1.95
2126248	Tyco*	3EHG1-2-R	Power entry filter, straight (screw flanged)	4	3	1550	Faston	0.25"	UL/CSA/VDE	2.15	1.13	1.29	1.42	5.95	4.49	3.95
107326	Delta	03DEEG3B (3EF1F)	Power entry filter, straight (screw flanged)	1	3	2250	Faston	0.25"	UL/CSA/VDE	2.20	1.19	0.87	1.58	2.95	2.49	1.95
667438	ValuePro	YB03A1 (3EF1F)	Power entry filter, straight (screw flanged)	1	3	2250	Faston	0.25"	UL/CSA/VDE	2.23	1.19	0.89	1.58	4.95	4.49	3.95
150616	ValuePro	03AC1R	Power entry filter, straight (screw flanged)	6	3	2250	Solder	0.16"	UL/CSA/VDE	2.05	1.19	0.89	1.58	3.95	3.59	3.39
1951537	Delta†	03GEEW3E-R (3ED8)	Power entry filter, wire (screw flanged)	2	3	2250	4" Wire	Wire	UL/CSA/VDE	1.90	1.19	0.87	1.58	3.95	3.59	3.39
1951553	Delta†	03GENG3E-R	Power entry filter (snap-in flanged)	7	3	2250	Faston	0.25"	UL/CSA/VDE	2.20	0.95	1.22	0.82	3.95	3.59	3.39
1954720	Delta	04BEEG3S	Power entry filter, straight, fused (screw flanged)	1	4	2250	Faston	0.25"	UL/CSA/VDE	2.26	1.19	1.26	1.40	2.95	2.49	1.95
1951570	Delta†	05DRDG3S (5ER7)	Power entry filter, 6-32 threaded panel mount	8	5	2250	Faston	0.25"	UL/CSA/VDE	3.15	1.97	1.28	1.58	3.95	3.59	3.39
667462	ValuePro	YB06T1	Power entry filter, straight (screw flanged)	1	6	2250	Solder	0.25"	UL/CSA/VDE	2.10	1.19	0.89	1.58	3.95	3.59	3.39
1951633	ValuePro†	YB06AIR	Power entry filter, straight (screw flanged)	1	6	2250	Faston	0.25"	UL/CSA/VDE	2.20	1.19	0.89	1.58	3.95	3.59	3.39
1951588	Delta	06DEEG3V	Power entry filter, right angle (screw flanged)	3	6	2250	Faston	0.25"	UL/CSA/VDE	1.64	1.19	0.87	1.58	3.95	3.59	3.39
1951596	Delta†	10GEEG3C	Power entry filter, straight (screw flanged)	1	10	2250	Faston	0.25"	UL/CSA/VDE	2.20	1.19	0.87	1.58	3.95	3.59	3.39
1951609	Delta	10ME3(S)	Power entry filter, right angle (PC mount)	3	10	2250	Solder	0.16"	UL/CSA/VDE	1.64	1.19	0.87	1.58	3.95	3.59	3.39
1951617	Delta	15DEEG3HA(D)	Power entry filter, straight (screw flanged)	1	15	2250	Faston	0.25"	UL/CSA/VDE	2.42	1.19	0.87	1.58	4.95	4.49	3.95
165016	OKAYA††	SUP-J15G-E2	Power entry filter, straight (screw flanged)	6	15	††	Solder	0.16"	UL/CSA/VDE	2.20	1.21	0.89	1.58	4.95	4.49	3.95
147901	ValuePro	701R	AC power inlet, male (screw flanged)	9	15	250	Faston	0.187"	UL/CSA/VDE	1.97	0.76	1.06	1.58	.99	.79	.65
16652	ValuePro	JR101R	AC power inlet, male (screw flanged)	9	15	250	Faston	0.25"	UL/CSA/VDE	1.97	0.76	1.06	1.58	1.09	.89	.69
2114010	Adam Tech	IEC-A-4R	AC pwr inlet, M RA (screw flanged, PC mount)	9A	15	250	Solder	0.071"	UL/CSA/VDE	1.97	0.89	1.06	0.76	.45	.35	.29
147109	Various	42R02	AC power inlet, male (snap-in)	10	15	250	Faston	0.25"	UL/CSA/VDE	1.23	0.95	1.04	0.77	.99	.79	.65
2114028	Adam Tech	IEC-J-4R	AC pwr inlet, M RA (snap-in, PC mount)	10A	15	250	Solder	0.071"	UL/CSA/VDE	1.22	0.95	1.04	0.79	.49	.45	.39
2095525	ValuePro#	IEC-GS-1-100	AC pwr inlet, male w/ sw. & fuse folder (snap-in)	11	15	250	Faston	0.187"	UL/CSA/VDE	1.20	1.97	0.77	1.83	2.49	2.25	1.95
117445	ValuePro#	07117R	AC power inlet, male w/ fuse chamber (snap-in)	12	10	250	Faston	0.187"	UL/CSA/VDE	1.18	1.30	1.05	1.20	1.95	1.79	1.59
2125632	Various	66822	AC power inlet, male w/ fuse chamber (snap-in)	12	10	250	Faston	0.25"	UL/CSA/VDE	1.22	1.33	0.87	1.22	1.95	1.79	1.59
265528	ValuePro#	WS-044R	AC power inlet, male w/ fuse chamber (screw)	13	10	250	Faston	0.185"	UL/CSA/VDE	1.40	1.28	1.06	1.21	1.49	1.35	1.19
1954640	Various	K2415	AC power inlet, female (snap-in)	14	15	250	Faston	0.187"	UL/CSA/VDE	1.38	0.98	1.26	1.10	1.25	.99	.79
1954658	Various	K2414	AC power inlet, female (screw flanged)	15	15	250	Faston	0.187"	UL/CSA/VDE	1.97	1.14	1.26	0.95	1.75	1.49	1.25
2114095	Adam Tech	NEMA-5-2R##	AC pwr outlet, NEMA receptacles (snap-in)	16	15	250	Fork	—	UL/CSA/VDE	1.063	1.063	0.70	0.866	.75	.65	.55
2114124	Adam Tech	PLF-6D22KR	Pwr entry filter, strght, fuse & sw. (screw flngd)	17	15	250	Faston	0.250"	UL/CSA/VDE	1.968	2.559	2.394	1.154	9.95	8.95	7.95
2114116	Adam Tech	PLF-3PCR	Line filter, metal case (PC mount)	18	15	250	Solder	0.039"	UL/CSA/VDE	0.984	0.984	0.787	—	6.69	6.29	5.69

† High Performance; Increased filtering; Added bleed resistor; More safety agencies

†† Hipot: 2000Vrms

\* Medical version, use with 5 x 20mm fuse

# Includes spare fuse holder - fuse type 5mm x 20mm (250V)

## For 14-16 AWG wires



### The Best Warranty in the Industry

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\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

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NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

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# Power Cords

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE



## 2 & 3-Conductor Fan, Pigtail, Detachable & Hospital Grade Power Cords

- Molded connectors
- Excellent resistance to jacket abrasion
- Voltage rating: 300 volts
- Temperature: -20°C to +60°C



★ Web Code: UBF

AWG	Volts	Amps	VA
18	125	10	1250
16	125	12	1500
14	125	15	1875

### 2-Conductor Line Cords with Pigtail

Part No.	Product No.	*Mfr.	WT.	Fig.	Length	Color	AWG/Cond	Cord Type*	Pricing			
									1	10	50	100
2120188	444010-4	JVP	.15	1A	4'	Black	18/2	SPT-2	\$1.95	\$1.75	\$1.49	\$1.25
152187	17106BG	JVP	.20	1	6'	Beige	18/2	SPT-2	2.25	1.99	1.85	1.69
124434	ST008	JVP	.16	1	6'	Black	18/2	SPT-2	2.25	1.99	1.85	1.69
42042	SY-001-R	JVP	.18	1A	6'	Black	18/2	SPT-2	2.49	2.25	1.95	1.79

### 2-Conductor "8" Style Power Cords for Laptops and Power Supplies

355944	VW-1G	♦	.30	2A	6'	Gray	18/2	SPT-2	\$1.75	\$1.59	\$1.39	\$1.25
189587	VW-1	JVP	.30	2A	6'	Black	18/2	SPT-2	2.69	2.39	2.19	1.95

### 2-Conductor "D" Style Power Cord for Laptops and Power Supplies

200791	LL114039	♦	.30	2B	6'	Black	18/2	SPT-2	\$1.95	\$1.79	\$1.59	\$1.39
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### 2-Conductor AC Plug Fan Power Cords

1952572	FACS3	♦	.40	3A	6'	Black	18/2	SPT-2	\$2.95	\$2.69	\$2.39	\$2.19
1952581	FAC45	♦	.40	3B	6'	Black	18/2	SPT-2	2.95	2.69	2.39	2.19

### 3-Conductor Power Cords with Pigtail (Unshielded) 290 Plug

38009	17237	JVP	.31	4	6'	Gray	18/3	SVT	\$3.79	\$3.39	\$2.95	\$2.79
37997	17236	JVP	.30	4	6'	Black	18/3	SVT	3.79	3.39	2.95	2.79
173810	17405	JVP	.14	4	6'	Gray	18/3	SJT	3.95	3.55	3.19	2.89
159410	17405B	JVP	.37	4	6'	Black	18/3	SJT	3.95	3.55	3.19	2.89
38025	17238	JVP	.42	4	8'	Black	18/3	SVT	4.49	3.95	3.55	2.95
102007	17535B	JVP	.49	4	10'	Black	18/3	SVT	4.95	4.49	3.95	3.49
196286	LL40378	JVP	.80	4	10'	Black	16/3	SJT	6.95	6.25	5.59	4.95
166925	17516	JVP	.41	4	6'7"	Black	14/3	SJT	7.95	7.19	6.49	5.79
100272	17629B	JVP	.88	4	9'	Black	14/3	SJT	8.95	7.95	7.19	6.49

† European standard insulation color code

### 3-Conductor Power Cord with Pigtail (Shielded) 910 Plug

339995	72W866SSD	JVP	.49	7A	6'7"	Black	18/3	SVT	\$3.95	\$3.49	\$2.95	\$2.65
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### 3-Conductor Detachable Power Cords (Unshielded) 290B/386A Plugs

2081801	17002A	JVP	.36	5	1'	Black	18/3	SVT	\$2.95	\$2.65	\$2.39	\$1.95
2082425	17000A	JVP	.35	5	3'	Black	18/3	SVT	3.25	2.95	2.59	2.29
38041	17249	JVP	.37	5	6'	Beige	18/3	SVT	3.95	3.59	3.19	2.49
103747	17248	JVP	.34	5	6'	Gray	18/3	SVT	3.95	3.59	3.19	2.49
38050	17250	♦	.36	5	6'	Black	18/3	SVT	3.95	3.59	3.25	2.95
132118	17500	JVP	.44	5	6'	Black	18/3	SJT	4.95	4.49	3.95	3.25
117584	17502	JVP	.37	5	7'7"	Gray	18/3	SVT	3.95	3.59	3.25	2.95
2100275	17251B	JVP	.37	5	7'7"	Black	18/3	SVT	3.95	3.49	3.19	2.79
1585637	171096	♦	.60	5	8'	Black	18/3	SVT	3.95	3.49	3.19	2.79
171096	17758	♦	.60	5	8'	Black	18/3	SJT	4.95	4.49	3.95	3.49
102024	17501V	JVP	.55	5	10'	Black	18/3	SVT	5.95	5.69	5.39	4.95
163361	6952299	JVP	.33	5	14'	Black	18/3	SJT	6.95	6.25	5.59	4.95
340291	17001A	JVP	.31	5	3'	Black	16/3	SJT	3.95	3.59	3.19	2.79
2126053	LL76932	♦	.52	5	6'	Black	16/3	SJT	5.95	4.95	3.95	3.49
159361	17602	JVP	.52	5	6'	Black	16/3	SJT	6.95	5.95	5.35	4.79
1537230	LL34877	JVP	.72	5	8'	Black	16/3	SJT	7.95	6.95	6.25	5.59
125541	17504	JVP	.72	5	6'7"	Black	14/3	SJT	7.95	7.19	6.49	5.79

SRFI filler on cord

### 3-Conductor Detachable Power Cords (Shielded) 290B/386A Plugs

Part No.	Product No.	*Mfr.	WT.	Fig.	Length	Color	AWG/Cond	Cord Type*	Pricing			
									1	10	50	100
2082433	77450	JVP	.40	5	6'	Gray	18/3	SVT	\$3.49	\$2.95	\$2.65	\$2.25
213874	17660BG	JVP	.40	5	6'	Beige	18/3	SVT	4.25	3.79	3.49	2.95
161761	17742	SLA	.40	5	6'	Black	18/3	SVT	4.49	3.95	3.59	2.95
1537459	LL6415	♦	.40	5	9'10"	Beige	18/3	SJT	4.95	4.49	3.75	2.75

### 3-Conductor Computer Power Supply Extension Cords (150/386A/910 Plugs)

2125827	LS-14	♦	.15	6B	6'	Black	18/3	SVT	\$1.95	\$1.75	\$1.59	\$1.35
2125317	LL90989	♦	.15	6B	1'6"	Black	18/3	SVT	2.49	2.25	1.95	1.75
206172	PEC-3	JVP	.22	6A	3'	Black	18/3	SJT	2.95	2.65	2.39	2.19
319804	LR94903	♦	.82	6A	6'	Gray	18/3	SVT	2.95	2.75	2.49	2.25
28468	PEC	JVP	.36	6A	6'	Black	18/3	SVT	3.95	3.55	3.19	2.79
420224	10W1-02212	JVP	.53	6A	12'	Black	18/3	SVT	5.95	5.39	4.79	4.25

### 3-Conductor Power Cords with Pigtail (Unshielded) 910 or 386 Plug

340056	17537	JVP	.37	7A	9'10"	Black	18/3	SJT	\$3.95	\$3.49	\$2.95	\$2.75
340099	17539	JVP	.80	7A	9'10"	Black	16/3	SJT	4.95	4.49	3.95	3.49
340072	17521	JVP	.80	7B	9'10"	Black	16/3	SJT	3.95	3.49	2.95	2.75

### 3-Conductor Right Angle Detachable Power Cords (Unshielded) 290B/910 Plugs

117357	8120-6177	JVP	.41	8B	6'	Gray	18/3	SVT	\$3.95	\$3.55	\$3.19	\$2.79
38077	17250R	JVP	.54	8B	6'	Black	18/3	SVT	3.95	3.55	3.19	2.79
2099999	E88265	JVP	.82	8A	8'	Black	18/3	SVT	4.49	3.95	3.49	2.95
2121519	17569R	JVP	.30	8B	10'	Black	18/3	SJT	4.95	4.49	3.95	3.59
177384	17507	JVP	.28	8B	10'	Black	18/3	SVT	4.95	4.49	3.95	3.49
222958	17510	♦	.88	8B	6'7"	Black	14/3	SJT	5.95	5.39	4.79	4.25

### 3-Conductor Right Angle Detachable Power Cord (Shielded) 290B/910 Plugs

173252	17745	JVP	.16	8B	6'7"	Black	18/3	SVT	\$5.95	\$5.39	\$4.79	\$4.25
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### 3-Conductor Hospital Grade Power Cords (green dot)

2115434	LL39965	♦	.75	10	10'	Gray	18/3	SJT	\$7.95	\$6.95	\$5.95	\$4.95
132011	17006G	JVP	.82	10	10'	Gray	16/3	SJT	9.95	8.95	7.95	6.95
115078	17006	JVP	.84	10	10'	Blk†	16/3	SJT	10.95	9.95	8.95	7.95
1537563	17510HG	♦	.82	9	10'	Gray	14/3	SJT	5.95	5.49	4.95	4.49

### 3-Conductor Computer Monitor Power Adapter Cord (150/386 Plugs)

177448	MPC1	JVP	.16	11	1'	Black	18/3	SVT	\$2.95	\$2.69	\$2.39	\$2.19
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### 3-Conductor Detachable Power Cords (Power Strip Saver) 290B/386 Plugs

208339	P55-BR	JVP	.16	12	1'	Beige	18/3	SVT	\$2.49	\$2.25	\$1.95	\$1.75
199778	PSS-1	JVP	.16	12	1'	Black	18/3	SVT	2.95	2.69	2.39	2.15

### 3-Conductor Power Cord ("Y" Type Power Strip Saver II) 290B/386 (2) Plugs

208347	GPR-2006	♦	.38	13	22'	Black	18/3	SVT	\$6.95	\$6.25	\$5.59	\$4.95
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### 3-Conductor Power Cord ("Y" Twin End) 150/386 (2) Plugs

340566	17268A	JVP	.32	14	4'	Black	18/3	SJT	\$6.95	\$6.25	\$5.59	\$4.95
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### 3-Conductor "Mickey Mouse" Style Power Supply Cords

1953559	MMFLAT	MWL	.40	15	6'	Black	18/3	SPT-2	\$2.95	\$2.65	\$2.39	\$1.95
1951123	MMPC	MWL	.40	15	6'	Black	18/3	SVT	4.95	4.49	3.95	3.49

\* Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service

\* JVP = Jameco ValuePro | MWL = Mean Well | SLA = Sola | ♦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.



JAMECO ValuePro

## International Power Cords

- 3-conductor detachable power cords
- Excellent resistance to jacket abrasion
- Cord color: black; except 1950702/172195: grey

- BSI: British Standard Institution
- Cord type: H05VVf
- Voltage rating: 300V



Fig. 1 (Straight)



Fig. 2  
(Right Angle, Fused)



Fig. 3













Fig. A

★ Web Code: XAQ



European Agency Approvals

Part No.	Cross Ref. No.	Country	Agency Approvals	Cord Length	Plug Fig.	Conductors	Pricing		
							1	10	100
117911	PCVDE-6B	Europe	All	6 ft.	1/A	3/0.75mm	\$4.95	\$4.49	\$3.95
1950702	BSI1363A	UK	ATSA	6 ft.	2/A	3/1.0mm	3.95	3.49	2.95
174633	21071H5182	UK/Ireland	BSI	8 ft.	2/A	3/1.0mm	6.95	6.25	5.59
172195	8120-6979	Italy	All	6 ft.	3	3/1.0mm	2.95	2.49	1.95

Germany	VDE		France	LCIE	
Austria	OVE		Netherlands	KEMA	
Belgium	CEBEC		Norway	NEMKO	
Denmark	DEMKO		Sweden	SEMKO	
Finland	FIMKO		Switzerland	SEV	

## Open-Frame Power Supplies

### Open-Frame Linear AC-to-DC Power Supplies

- Load regulation:  $\pm 0.5\%$
- Line regulation:  $\pm 0.5\%$
- UL/CE/TUV certified
- Jumperable between 100VAC to 240VAC

★ Web Code: MSP



2077503

Part No.	Manufacturer	Mfr. Part No.	Output		Input (VAC @ Hz)	Rip & Noise (mV p-p)	Size (L" x W" x H")	Pricing		
			Voltage@Current (min-max)	Power				1	5	25
2077503	Astec	ACV12N5	+12V @ 5.1A	61W	100-240 @ 47-63Hz	3.0	7.0 x 4.87 x 2.75	\$24.95	\$22.49	\$19.95
2077511	Astec	ACV15N4.5	+15V @ 4.5A	67.5W	100-240 @ 47-63Hz	3.0	7.0 x 4.87 x 2.75	21.95	19.95	17.95

### Open-Frame Medical Switching AC-to-DC Power Supplies



MPS-65

- Universal AC input/full range
- Soft-start circuit, limiting AC surge current
- Short-circuit, overload and overvoltage protection
- Load regulation:  $\pm 2.0\%$
- Volt. adjustment: 10%
- 100% full-load burn-in test
- Leakage current: 0.3mA @ 240V
- Isolation volt.: 4000VAC
- Working temp.: -10°C to +60°C
- Mating connector: P/N 104732, pg 70



★ Web Code: JBK

Part No.	Manufacturer	Mfr. Part No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing		
			Voltage @ Current (min-max)	Power				1	5	25
221058	Mean Well	MPS-45-7.5	+7.5V @ 0-5.4A	40.5W	90-264 @ 47-440	100	UL/CUL/TUV/CE	\$23.95	\$21.95	\$19.95
221066	Mean Well	MPS-45-12	+12V @ 0-3.7A	44.4W	90-264 @ 47-440	100	UL/CUL/TUV/CE	21.95	19.95	17.95
221154	Mean Well	MPS-65-12	+12V @ 0-5.2A	62.4W	90-264 @ 47-440	100	UL/CUL/TUV/CE	26.49	24.49	22.49
221162	Mean Well	MPS-65-13.5	+13.5V @ 0-4.7A	63.5W	90-264 @ 47-440	100	UL/CUL/TUV/CE	23.95	21.95	19.95
2081721	EOS	LFMVL780-4000	+5V @ 10A, +12V @ 2A, -5V @ .8A, -12V @ .8A	80.0W	90-240 @ 47-63	80	UL/CE	19.95	17.95	15.95

\* Primary Output

### Open-Frame Ultraminiature Switching AC-to-DC Power Supplies



OFM-0203

- 100% full-load burn-in test
- No load consumption
- Ultraminiature size and lightweight
- Short-circuit, overload, overvoltage, overtemperature protection
- Three-year warranty; except P/Ns 300433/300530: Two-year warranty
- Universal AC input/full range
- UL/CUL/TUV/CE



★ Web Code: CCO



NFM-05

Part No.	Manufacturer	Mfr. Part No.	Output		Size (L" x W" x H")	Load Regulation	Line Regulation	Ripple & Noise (mV p-p)*	Pricing		
			Voltage @ Current (min-max)	Power					1	10	50
694971	Mean Well	NFM-05-5	+5V @ 0-1A	5W	2.3 x 1.8 x 0.8	$\pm 1.5\%$	$\pm 1.0\%$	80	\$12.95	\$11.95	\$10.95
300281	Mean Well	OFM-5001	+5V @ 0-1A	5W	2.3 x 1.8 x 0.8	$\pm 2.0\%$	$\pm 0.5\%$	50	16.95	14.95	13.95
300433	Astrodyne	OFM-0101	+5V @ 0-2A	10W	2.6 x 1.8 x 0.8	$\pm 1.0\%$	$\pm 1.0\%$	80	12.95	11.95	10.95
695092	Mean Well	NFM-10-5	+5V @ 0-2A	10W	2.6 x 1.8 x 0.9	$\pm 1.0\%$	$\pm 1.0\%$	80	14.49	13.25	11.95
694989	Mean Well	NFM-05-12	+12V @ 0-0.42A	5.04W	2.3 x 1.8 x 0.8	$\pm 0.5\%$	$\pm 0.5\%$	150	12.95	11.95	10.95
695156	Mean Well	NFM-15-12	+12V @ 0-1.25A	15W	2.8 x 1.9 x 0.9	$\pm 0.5\%$	$\pm 0.5\%$	150	16.95	15.95	14.95
300484	Mean Well	OFM-1502	+12V @ 0-1.25A	15W	2.8 x 1.9 x 0.8	$\pm 1.0\%$	$\pm 0.3\%$	150	23.95	21.95	19.95
300417	Mean Well	OFM-5003	+15V @ 0-0.33A	5W	2.3 x 1.8 x 0.8	$\pm 1.0\%$	$\pm 0.3\%$	150	14.95	12.95	11.95
300530	Mean Well	OFM-0203	+15V @ 0-1.4A	20W	3.5 x 2.0 x 0.8	$\pm 1.0\%$	$\pm 0.3\%$	150	18.95	16.95	15.95

\* Primary Output

Open-Frame Switching Power Supplies continued on pages 126 & 127



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# Open-Frame Switching AC-to-DC Power Supplies

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

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## Open-Frame Switching AC-to-DC Power Supplies

\* Web Code: OSP

- Universal AC input/full range
- Short-circuit, overload and overvoltage protection
- Two-year warranty
- PFC Model Additional Features:
- Built-in active Power Factor Protection function, power factor >0.93
- Three-year warranty

For complete specifications visit [www.Jameco.com](http://www.Jameco.com)



PPS-125



LPP-150



USP-225

Part No.	Manufacturer	Mfr. Part No.	Output		Input (VAC @ Hz)	Size (L"xW"xH")	Mounting Holes (L"xW"xDia.")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	PFC	Certification	Pricing		
			Voltage @ Current (min-max)	Power									1	5	25
Single Output															
218991	Artesyn	NLP150L-96S3	+3.3V @ 1-22A	72.6W	90-264 @ 47-63	6.8x3.8x1.3	6.5x3.5x0.2	50	2.0	2.0	—	UL/CSA/VDE/CE	\$69.95	\$64.95	\$59.95
694452	Mean Well	USP-225-3.3	+3.3V @ 0-40A	132W	90-264 @ 47-63	8.0x4.0x1.5	see datasheet	100	1.0	0.5	✓	UL/CUL/TUV/CE/CB	74.95	69.95	64.95
229042	Phihong	PSA15LN3-050	+5V @ 0-3A	15W	90-264 @ 47-63	4.3x1.6x0.9	4.0x1.3x0.2	50	2.0	1.0	—	UL/CUL/TUV/CE	22.95	20.95	18.95
2081836	CUI Inc.	VOF-25-5	+5V @ 4.4A	25W	85-264 @ 47-63	3.5x2.0x0.9	3.2x1.7X0.2	50	5.0	5.0	—	UL/CUL/TUV/CE/FCC	11.95	10.49	9.49
212354	Mean Well	PS-25-5	+5V @ 0-5A	25W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	80	2.0	0.5	—	UL/CUL/TUV/CE	13.95	12.49	10.95
217332	Mean Well	PS-45-5	+5V @ 0-8A	40W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	100	3.0	1.0	—	UL/CUL/TUV/CE	15.49	13.95	12.49
201938	Mean Well	PS-65-5	+5V @ 0-12A	60W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	100	1.0	4.0	—	UL/CUL/TUV/CE	16.95	14.95	13.49
1586331	Phihong	PSA120-050-R	+5V @ 0-15A	75W	40-264 @ 47-63	5.0x3.0x1.2	4.5x2.5x0.2	100	20.0	1.0	—	UL/CUL/TUV/CE	34.95	31.95	29.95
218915	Artesyn	NLP110-9605	+5V @ 0.5-15A	75W	90-264 @ 47-63	6.5x3.0x1.3	6.1x2.6x0.2	50	2.0	2.0	—	UL/CUL/CSA/VDE	37.95	34.95	31.95
1954439	Mean Well	USP-500-5	+5V @ 0-80A	400W	90-264 @ 47-63	10.0x5.0x1.6	see datasheet↑	80	2.0	0.5	✓	UL/CUL/TUV/CE	199.95	189.95	179.95
219011	Artesyn	NLP150L-96S5	+5.1V @ 1-22A	112.2W	90-264 @ 47-63	6.8x3.8x1.3	6.5x3.5x0.2	50	2.0	2.0	—	UL/CSA/VDE/CE	39.95	34.95	31.95
2105666	Mean Well	PS-15-12	+12V @ 0-1.25A	15W	85-264 @ 47-63	3.7x1.9x1.0	3.4x1.9x0.14	150	0.5	0.5	—	CE/CB	10.95	9.95	8.95
229060	Phihong	PSA15LN3-120	+12V @ 0-1.25A	15W	90-264 @ 47-63	4.3x1.6x0.9	4.0x1.3x0.2	120	2.0	1.0	—	UL/CUL/TUV/CE	22.95	20.95	18.95
148604	Mean Well	PS-25-12	+12V @ 0-2.1A	25.2W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	100	2.0	0.3	—	UL/CUL/TUV/CE	13.95	12.49	10.95
213728	Mean Well	PS-45-12	+12V @ 0-3.7A	44.4W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	100	2.0	1.0	—	UL/CUL/TUV/CE	15.49	13.95	12.49
148639	Mean Well	PS-65-12	+12V @ 0-5.2A	62.4W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.15	100	2.0	1.0	—	UL/CUL/TUV/CE	16.95	14.95	13.49
2099981	ITE	SBU60-105	+12V @ 5.25A	63W	90-264 @ 47-63	5.0x3.0x1.1	4.6x2.6x0.15	120	3.0	0.5	—	UL/CUL/CE	13.95	11.95	9.95
173472	Mean Well	LPS-100-12	+12V @ 0-8.4A	100.8W	88-264 @ 47-63	8.7x2.4x1.3	8.4x2.1x0.14	100	1.5	0.5	✓	UL/CUL/TUV/CE	41.95	38.95	35.95
237024	Lite-On	PA-1101-1	+12V @ 2-8.5A	102W	85-264 @ 47-63	6.0x4.0x1.3	—	1200	10.0	1.0	—	UL/CUL/TUV/CE	34.95	31.95	28.95
2079373	PowerLD	PD-125-12	+12V @ 0-10.5A	126W	90-264 @ 47-63	5.0x3.0x1.2	4.6x2.6x0.14	100	2.0	0.5	—	UL/CUL/CE	44.95	39.95	36.95
374089	Mean Well	PPS-125-12	+12V @ 0-10.5A	126W	90-264 @ 47-63	5.0x3.0x1.4	4.6x2.6x0.14	100	1.0	0.5	✓	UL/CUL/TUV/CE	56.95	52.95	49.95
213681	Mean Well	LPP-150-12	+12V @ 0-12.5A	150W	85-264 @ 47-63	8.7x2.4x1.6	8.3x2.6x0.15	100	1.0	0.5	✓	UL/CUL/TUV/CE	39.95	36.95	33.95
668713	Mean Well	PPS-200-12	+12V @ 0-16.6A	199.2W	90-264 @ 47-63	5.0x3.0x1.4	4.6x2.6x0.14	100	1.0	0.5	✓	UL/CUL/TUV/CE	79.95	71.95	63.95
374380	Mean Well	PS-65-13.5	+13.5V @ 0-5.4A	63.5W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.15	100	2.0	1.0	—	UL/CUL/TUV/CE	16.95	14.95	13.49
216769	Mean Well	PS-25-15	+15V @ 0-1.7A	25.5W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	100	2.0	0.3	—	UL/CUL/TUV/CE	13.95	12.49	10.95
1919019	Mean Well	PS-35-15	+15V @ 0-2.4A	36W	90-264 @ 47-440	4.0x2.0x0.9	3.8x1.8x0.1	150	0.5	0.5	—	UL/CUL/TUV/CE/CB	15.25	13.75	12.25
216751	Mean Well	PS-65-15	+15V @ 0-4.2A	63W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	100	2.0	1.0	—	UL/CUL/TUV/CE	16.95	14.95	13.49
374097	Mean Well	PPS-125-15	+15V @ 0-8.4A	126W	90-264 @ 47-63	5.0x2.4x1.4	4.6x2.6x0.14	100	1.0	0.5	✓	UL/CUL/TUV/CE	56.95	52.95	49.95
668721	Mean Well	PPS-200-15	+15V @ 0-13.3A	199.5W	90-264 @ 47-63	5.0x3.0x1.4	4.6x2.6x0.14	100	1.0	0.5	✓	UL/CUL/TUV/CE	79.95	71.95	63.95
212346	Mean Well	PS-25-24	+24V @ 0-1A	24W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	240	2.0	0.2	—	UL/CUL/TUV/CE	13.95	12.49	10.95
1919035	Mean Well	PS-35-24	+24V @ 0-1.5A	36W	90-264 @ 47-440	4.0x2.0x0.9	3.8x1.8x0.1	200	0.5	0.5	—	UL/CUL/TUV/CE/CB	15.25	13.75	12.25
213720	Mean Well	PS-45-24	+24V @ 0-1.9A	45.6W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	100	2.0	1.0	—	UL/CUL/TUV/CE	15.49	13.95	12.49
148647	Mean Well	PS-65-24	+24V @ 0-2.7A	64.8W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	100	2.0	1.0	—	UL/CUL/TUV/CE	16.95	14.95	13.49
244727	Mean Well	LPS-75-24	+24V @ 0-3.5A	76.8W	90-264 @ 47-63	8.7x2.2x1.2	8.4x1.8x0.2	120	1.0	1.0	✓	UL/CUL/TUV/CE	24.95	22.95	20.95
173463	Mean Well	LPS-100-24	+24V @ 0-4.2A	100.8W	88-264 @ 47-63	8.7x2.4x1.3	8.4x2.1x0.1	150	0.5	0.5	✓	UL/CUL/TUV/CE	41.95	38.95	35.95
301429	Mean Well	PPS-125-24	+24V @ 0-5.2A	124.8W	90-264 @ 47-63	5.0x3.0x1.4	4.6x2.6x0.1	150	1.0	0.5	✓	UL/CUL/TUV/CE	56.95	52.95	49.95
213672	Mean Well	LPP-150-24	+24V @ 0-6.3A	150W	85-264 @ 47-63	8.7x2.4x1.6	8.3x2.6x0.2	150	0.5	0.5	✓	UL/CUL/TUV/CE	46.95	42.95	38.95
668730	Mean Well	PPS-200-24	+24V @ 0-8.3A	199.2W	90-264 @ 47-63	5.0x3.0x1.4	3.7x7.8x0.14	150	1.0	0.5	✓	UL/CUL/TUV/CE	79.95	71.95	63.95
694495	Mean Well	USP-225-24	+24V @ 0-9.4A	225.6W	90-264 @ 47-63	8.0x4.0x1.5	see datasheet↑	150	1.0	0.5	✓	UL/CUL/TUV/CE/CB	64.95	59.95	54.94
201946	Mean Well	PS-65-27	+27V @ 0-2.4A	64.8W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	100	2.0	1.0	—	UL/CUL/TUV/CE	16.95	14.95	13.49
236882	Mean Well	LPP-100-27	+27V @ 0-3.8A	102.6W	88-264 @ 47-63	8.7x2.4x1.3	8.4x2.1x0.1	150	0.5	0.5	✓	UL/CUL/TUV/CE	34.95	29.95	26.95
201954	Mean Well	PS-65-48	+48V @ 0-1.35A	64.8W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	100	2.0	1.0	—	UL/CUL/TUV/CE	16.95	14.95	13.49
216710	Mean Well	LPS-100-48	+48V @ 0-2.1A	100.8W	88-264 @ 47-63	8.7x2.4x1.3	8.4x2.1x0.1	200	0.5	0.5	✓	UL/CUL/TUV/CE	34.95	29.95	26.95
2120348	Cosel	LDA150W-48	+48V @ 3.0A	144W	85-264 @ 47-440	8.7x2.9x1.3	8.3x2.5x0.1	400	0.5	0.04	—	UL/CSA/VDE/CE	19.95	17.95	15.95
216645	Mean Well	LPP-150-48	+48V @ 0-3.2A	153.6W	85-264 @ 47-63	8.7x2.4x1.6	8.3x2.6x0.2	250	0.5	0.5	✓	UL/CUL/TUV/CE	29.95	26.95	23.95
1954463	Mean Well	USP-500-48	+48V @ 10.5A	504W	90-264 @ 47-63	10.0x5.0x1.6	see datasheet↑	150	1.0	0.5	✓	UL/CUL/TUV/CE	199.95	189.95	179.95

\* Primary Output † Multiple sets of mounting holes, see datasheet for dimensions

More Open-Frame Switching Power Supplies on pages 125 & 127

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# Open-Frame & Enclosed Switching AC-to-DC Power Supplies

## Open-Frame Switching AC-to-DC Power Supplies (Continued)

- Universal AC input/full range
- Short-circuit, overload and overvoltage protection
- Two-year warranty

For complete specifications visit [www.Jameco.com](http://www.Jameco.com)



\*Web Code: OSP



PT-65

Part No.	Manufacturer	Mfr. Part No.	Output		Input (VAC @ Hz)	Size (L"xW"xH")	Mounting Holes (L"xW"xDia.")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	PFC	Certification	Pricing		
			Voltage @ Current (min-max)	Power									1	5	25
Double Output															
171731	Delta	DPS-60MPB	+3.3V @ 0.8-8A; +5V @ 1-9A	65W	90-270 @ 47-63	5.8x3.3x1.4	5.1x3.74x0.1	50	2.0	2.0	—	UL/CUL/TUV	\$8.95	\$7.95	\$6.95
212312	Mean Well	PD-2505	+5V @ 0.1-3A; -5V @ 0.1-2.5A	25W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.08x0.1	50	4.0	1.0	—	UL/CUL/TUV/CE	19.95	18.49	16.95
212338	Mean Well	PD-25A	+5V @ 0.2-2.5A; +12V @ 0.1-1.5A	25W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.08x0.1	50	1.0	0.5	—	UL/CUL/TUV/CE	16.95	15.95	14.95
212330	Mean Well	PD-25B	+5V @ 0.2-2A; +24V @ 0.1-1A	25.2W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	50	1.0	0.5	—	UL/CUL/TUV/CE	16.95	15.95	14.95
194862	Mean Well	PD-45A	+5V @ 0.4-3.2A; +12V @ 0.2-2	40W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	50	3.0	1.0	—	UL/CUL/TUV/CE	17.95	16.95	15.95
194871	Mean Well	PD-45B	+5V @ 0.4-3.2A; +24V @ 0.2-1.2A	44.8W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	50	3.0	1.0	—	UL/CUL/TUV/CE	17.95	16.95	15.95
194889	Mean Well	PD-65A	+5V @ 0.4-7A; +12V @ 0.2-3.2A	61.1W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	50	3.0	1.0	—	UL/CUL/TUV/CE	19.95	18.95	17.95
692377	Autec	UPS65-1002	+5V @ 0.5-3.5A; +12V @ 0.1-4A	65W	90-260 @ 47-63	6.0x3.5x1.5	4.8x3.2x0.2	50	2.0	0.5	—	UL/CSA/TUV	19.95	17.95	15.95
194897	Mean Well	PD-65B	+5V @ 0.4-3.5A; +24V @ 0.2-2A	65.5W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	50	3.0	1.0	—	UL/CUL/TUV/CE	19.95	18.95	17.95
375056	Mean Well	PD-110B	+5V @ 0.5-5A; +24V @ 0.5-3.5A	109W	100-264 @ 47-63	7.0x4.3x1.8	6.5x3.8x0.1	100	1.0	1.0	—	UL/CUL/TUV/CE	43.95	39.95	36.95
148690	Mean Well	PD-2512	+12V @ 0.1-1.2A; -12V @ 0.1-1A	24W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	50	3.0	0.5	—	UL/CUL/TUV/CE	15.95	14.95	13.95
2100857	Mean Well	PD-25-15	+15V @ 1A, -5V @ 1A	25W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	50	3.0	0.5	—	EN/TUV/UL	19.95	17.95	16.49
Triple Output															
230536	Phihong	PSA25L-301	+5V @ 0.2-2A; +12V @ 0.1-1A; -12V @ 0-0.3A	25W	90-264 @ 47-63	4.3x1.6x0.9	3.7x2.1x0.1	50	2.0	1.0	—	UL/CUL/TUV/CE	\$26.95	\$24.95	\$22.95
2081617	Artesyn	NFN40-7607	+5V @ 3A; +12V @ 2A; -5V @ 0.35A	40W	85-264 @ 47-440	5.0x3.0x1.2	4.6x2.6x0.15	50	2.0	1.0	—	UL/CSA/TUV	19.95	17.95	15.95
229122	Phihong	PSA4531	+5V @ 0-4A; +12V @ 0-1.5A; -12V @ 0-0.5A	44W	90-264 @ 47-63	5.0x3.0x1.2	4.6x2.6x0.2	50	2.0	1.0	—	UL/CSA/TUV/CE	36.95	33.95	30.49
88402	Mean Well	PT-45B	+5V @ 0.4-3A; +12V @ 0.2-2A; -12V @ 0-0.3A	45W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	50	3.0	1.0	—	UL/CUL/TUV/CE	19.95	18.49	16.95
229140	Phihong	PSA4534	+5V @ 0-4A; +15V @ 0-1.2A; -15V @ 0-0.5A	45.5W	90-264 @ 47-63	5.0x3.0x1.2	4.6x2.6x0.16	50	2.0	2.0	—	UL/CSA/TUV/CE	34.95	31.95	28.95
216734	Mean Well	PT-65B	+5V @ 0.4-5.5A; +12V @ 0.2-2.5A; -12V @ 0-0.5A	63.5W	90-264 @ 47-440	5.0x3.0x1.7	4.6x2.6x0.2	50	3.0	1.0	—	UL/CUL/TUV/CE	22.95	20.95	19.49
216726	Mean Well	PT-65C	+5V @ 0.4-5.5A; +15V @ 0.2-2A; -15V @ 0-0.5A	65W	90-264 @ 47-440	5.0x3.0x1.7	4.6x2.6x0.2	50	3.0	1.0	—	UL/CUL/TUV/CE	22.95	20.95	19.49
215707	Mean Well	PT-65D	+5V @ 0.5-4A; +12V @ 0.2-2A; +24V @ 0.2-1A	65W	90-264 @ 47-440	5.0x3.0x1.7	4.6x2.6x0.2	50	2.0	1.0	—	UL/CUL/TUV/CE	22.95	20.95	19.49
301487	Mean Well	PPT-125B	+5V @ 1-14.4A; +12V @ 0.3-3.8A; -12V @ 0.05-0.63A	99.5W	90-264 @ 47-63	5.0x3.0x1.4	4.6x2.6x0.1	100	3.0	0.5	✓	UL/CUL/TUV/CE	56.95	53.95	51.95
Quad Output															
673934	Martek Power	PVI-50-46BUB	+5V @ 6.5A; +3.3V @ 2.5A; +12V @ 0.8A; -12V @ 0.5A	57W	100-240 @ 50-60	8.1x3.2x1.5	7.6x2.6x0.15	50	2.0	2.0	—	UL/CUL/CSA/TUV/CE	\$10.95	\$9.95	\$8.95
2081721	EOS**	LFMVL780-4000	+5V @ 10A; +12V @ 2A; -5V @ 0.8A; -12V @ 0.8A	80W	90-240 @ 47-63	3.0x5.0x1.0	4.55x2.55	80	1.0	1.0	—	UL/CE	19.95	17.95	15.95
645298	Mean Well	PQ-100DTR	+5V @ 5A; +12V @ 2A; -12V @ 2A; +24V @ 2A	103W	100-264 @ 47-63	7.0x4.3x1.8	6.5x3.8x0.2	80	1.0	1.0	—	—	36.95	32.95	28.95

\* Primary Output \*\* Medical rated

## Enclosed Switching AC-to-DC Power Supplies

Specs & images on next page

\*Web Code: EPS

Part No.	Manufacturer	Mfr. Part No.	Output		Size (L"xW"xH")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Additional Info pg 128 ↑	Certification	Pricing			
			Voltage @ Current (min-max)	Power							1	5	25	
Single Output														
693193	Mean Well🌱	RS-25-3.3	+3.3V @ 0-6A	19.8W	3.0x2.0x1.1	80	2.0	0.5	1	UL/CUL/TUV/CE/CB	\$19.95	\$16.49	\$13.95	
693329	Mean Well🌱	RS-150-3.3	+3.3V @ 0-30A	99W	7.8x3.9x1.5	80	2.0	0.5	1	UL/CUL/TUV/CE/CB	34.95	31.95	28.95	
201903	Mean Well🌱	SP-150-3.3-R	+3.3V @ 0-30A	99W	7.0x3.9x2.0	100	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	56.95	49.95	44.95	
692422	Volgen	SX15U-05S	+5V @ 0-3A	15W	3.3x2.7x1.3	100	0.8	0.8	—	UL/CSA	14.95	13.49	11.95	
689848	Metapo	1M150C05-1M	+5V @ 0-3A	15W	3.9x3.8x1.4	100	0.5	1.0	—	UL/CUL/TUV/CE	13.95	11.95	10.49	
1919043	Mean Well🌱	RS-15-5	+5V @ 0-3A	15W	2.5x2.0x1.1	80	1.5	0.5	1	UL/CUL/TUV/CE/CB	16.95	12.95	10.95	
323282	Mean Well🌱	RS-25-5	+5V @ 0-5A	25W	3.1x2.0x1.1	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	19.95	16.49	13.95	
123247	Mean Well🌱	S-25-5	+5V @ 0-5A	25W	3.9x3.8x1.4	50	1.0	0.5	2	UL/TUV/CE	19.95	16.95	14.95	
323329	Mean Well🌱	RS-35-5	+5V @ 0-7A	35W	3.9x3.2x1.4	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	21.95	17.95	14.95	
123290	Mean Well🌱	S-40-5	+5V @ 0-8A	40W	5.1x3.9x1.5	75	1.0	0.5	2	UL/CUL/TUV/CE/CB	22.95	19.95	17.95	

\* Primary Output † Additional info on next page

More Enclosed Switching Power Supplies continued on pages 128-132

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Enclosed Switching AC-to-DC Power Supplies

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

Jameco carries the full line of Mean Well Power products. For additional products visit [www.Jameco.com/meanwellproducts](http://www.Jameco.com/meanwellproducts)

## Enclosed Switching AC-to-DC Power Supplies (Continued)

★ Web Code: EPS

• 100% full-load burn-in test

For complete specifications visit [www.Jameco.com](http://www.Jameco.com)



### † Additional Info:

**1 G3 Series:** Miniature size, high reliability, suitable for critical applications • 88-264VAC @47-63Hz • 5G vibration  
• 70°C operation • Withstand 300VAC surge input for 5 sec. • Short-circuit/overload/overvoltage protection • Three-year warranty

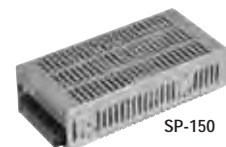
**2 G2 Series:** Without CE certification for models more than 200W (except for S-240) • 85-264VAC @47-63Hz  
• Universal AC input (25-60W), Switch selectable AC input (100W and above), AC input range auto-sensing (240W) • Two-year warranty

**3 PFC Series:** Built-in active Power Factor Correction function • Power factor >0.93 • 88-264VAC @47-63Hz  
• Universal AC input • Three-year warranty

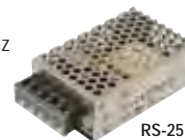
**4 Parallel Series:** Built-in remote sense, remote On/Off control & Parallel functions • 115V & 220V versions @ 47-63Hz  
• Short-circuit/overvoltage/overload/overtemperature protection

**5 Parallel Series with PFC:** Same as parallel series with Power Factor Correction

**6 G5 Series:** Built-in active PFC function • 1U low profile 38mm  
• High efficiency up to 89% • Withstand 300VAC surge input for 5 sec. • 85-264VAC @ 47-63Hz • Five-year warranty



SP-150



RS-25



SCN-600

Part No.	Manufacturer	Mfr. Part No.	Output		Size (L"xW"xH")	Ripple & Noise (mV p-p) *	Load Reg. (±%) *	Line Reg. (±%) *	Additional Info (above) †	Certification	Pricing		
			Voltage @ Current (min-max)	Power							1	5	25
Single Output (Continued)													
689784	Metapo	1M051C05-0M	+5V @ 0-10A	50W	6.0x3.7x1.5	100	—	—	—	UL/CUL	\$17.95	\$15.95	\$14.49
323388	Mean Well	RS-50-5	+5V @ 0-10A	50W	3.9x3.8x1.4	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	23.95	19.95	16.95
2079390	PowerLD	PD-60-5	+5V @ 0-10A	50W	5.1x3.9x1.5	50	2.0	0.5	—	UL/CUL/CE	29.95	26.95	23.95
689768	Potrans	FS-06005-0M	+5V @ 0-12A	60W	5.1x3.9x1.5	120	—	—	—	UL/CUL/CE	18.95	16.95	14.95
123327	Mean Well	S-60-5	+5V @ 0-12A	60W	6.3x3.8x1.5	120	1.0	0.5	2	UL/CUL/TUV/CE/CB	26.95	22.95	19.95
194830	Mean Well	SP-75-5	+5V @ 0-15A	75W	7.0x3.9x1.3	80	1.0	0.5	3	UL/CUL/TUV/CE/CB	42.95	36.95	31.95
323708	Mean Well	RS-100-5	+5V @ 0-16A	80W	6.3x3.8x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	39.95	32.95	26.95
201962	Mean Well	S-100F-5	+5V @ 0-20A	100W	7.8x3.9x1.5	100	1.0	0.5	2	UL/CUL/TUV/CE/CB	32.95	26.95	23.95
194791	Mean Well	SP-100-5	+5V @ 0-20A	100W	7.0x3.9x1.8	100	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	46.95	41.95	36.95
323821	Mean Well	RS-150-5	+5V @ 0-26A	130W	7.8x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	39.95	34.95	29.95
123394	Mean Well	S-150-5	+5V @ 0-30A	150W	7.0x4.3x2.0	150	0.5	0.5	2	UL/CUL/TUV/CE/CB	34.95	32.49	29.95
201912	Mean Well	SP-150-5	+5V @ 0-30A	150W	7.0x3.9x2.0	100	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	56.95	49.95	44.95
202042	Mean Well	SP-200-5	+5V @ 0-40A	200W	7.0x3.9x2.0	100	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	62.95	58.95	54.95
2102490	Mean Well	SP-240-5	+5V @ 0-45A	225W	7.5x3.7x2.0	150	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	64.95	59.95	55.95
216776	Mean Well	S-320-5	+5V @ 0-50A	250W	8.5x4.5x2.0	150	1.0	0.5	2	UL/CUL	69.95	64.95	59.95
244735	Mean Well	SP-320-5	+5V @ 0-55A at 230VAC; 0-44A at 115VAC	275W	8.5x4.5x2.0	150	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	64.95
693644	Mean Well	SP-480-5	+5V @ 0-85A	425W	10.9x5.0x1.7	80	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	154.95	144.95	134.95
374002	Mean Well	SE-600-05	+5V @ 0-100A	500W	9.7x5.0x2.5	150	2.0	0.5	2	UL/CUL	114.95	106.95	99.95
693661	Mean Well	SP-750-5	+5V @ 0-120A	600W	10.9x5.0x2.5	120	2.0	0.5	3	UL/CUL/TUV/CE/CB	229.95	214.95	199.95
231669	Mean Well	PSP-1500-5	+5V @ 0-217.5A	1087.5W	10.9x5.1x7.5	100	2.0	0.5	5	UL/CUL/TUV/CE/CB	299.95	279.95	264.95
123415	Mean Well	S-150-7.5	+7.5V @ 0-20A	150W	7.0x4.3x2.0	150	0.5	0.5	2	UL/CUL/TUV/CE/CB	34.95	32.49	29.95
207212	Mean Well	S-320-7.5	+7.5V @ 0-36A	270W	8.5x4.5x2.0	150	0.5	0.5	2	UL/CUL	69.95	64.95	59.95
394215	Mean Well	SP-320-7.5	+7.5V @ 0-40A	300W	8.5x4.5x2.0	150	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	64.95
693353	Mean Well	S-150-9	+9V @ 0-16.70A	150.3W	7.8x4.3x2.0	180	0.3	0.3	2	UL/CUL/TUV/CE/CB	39.95	34.95	31.95
1919051	Mean Well	RS-15-12	+12V @ 0-1.3A	15.6W	2.5x2.0x1.1	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	16.95	12.95	10.95
2120356	Potrans	FS-02512-1M-02	+12V @ 2.1A	25.2W	3.9x3.8x1.3	120	0.05	0.05	—	UL/CUL/CE	15.95	14.95	13.49
323300	Mean Well	RS-25-12	+12V @ 0-2.1A	25.2W	3.0x2.0x1.1	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	19.95	16.49	13.95
123255	Mean Well	S-25-12	+12V @ 0-2.1A	25.2W	3.9x3.8x1.4	100	0.5	0.5	2	UL/TUV/CE	19.95	16.95	14.95
323337	Mean Well	RS-35-12	+12V @ 0-3A	36W	3.9x3.2x1.4	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	21.95	17.95	14.95
689830	Metapo	1M041C12-1M	+12V @ 0-3.5A	42W	3.9x3.8x1.4	100	—	—	—	UL/CUL/TUV/CE	19.95	18.95	17.95
123298	Mean Well	S-40-12	+12V @ 0-3.5A	42W	5.1x3.9x1.5	100	0.5	0.5	2	UL/CUL/TUV/CE/CB	22.95	19.95	17.95
689821	Metapo	1M051C12-1M	+12V @ 0-4.2A	50W	6.0x3.7x1.5	100	—	—	—	UL/CUL/TUV/CE	19.95	18.95	17.95
323396	Mean Well	RS-50-12	+12V @ 0-4.2A	50.4W	3.9x3.8x1.4	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	23.95	19.95	16.95
689813	Metapo	1M061C05-0M	+12V @ 0-5A	60W	3.9x3.8x1.4	120	—	—	—	UL/TUV/CE	21.95	19.95	18.49
123335	Mean Well	S-60-12	+12V @ 0-5A	60W	6.3x3.8x1.5	120	0.5	0.5	2	UL/CUL/TUV/CE/CB	26.95	22.95	19.95
323599	Mean Well	RS-75-12	+12V @ 0-6A	72W	5.1x3.9x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	28.95	23.95	19.49
194838	Mean Well	SP-75-12	+12V @ 0-6.3A	75.6W	7.0x3.9x1.3	80	0.5	0.5	3	UL/CUL/TUV/CE/CB	42.95	36.95	31.95
123386	Mean Well	S-100F-12	+12V @ 0-8.5A	102W	7.8x3.9x1.5	125	0.5	0.5	2	UL/TUV/CE/CB	32.95	26.95	23.95
323716	Mean Well	RS-100-12	+12V @ 0-8.5A	102W	6.3x3.8x1.5	120	0.5	0.5	3	UL/CUL/TUV/CE/CB	39.95	32.95	26.95
194803	Mean Well	SP-100-12	+12V @ 0-8.5A	102W	7.0x3.9x1.8	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	46.95	41.95	36.95
123423	Mean Well	S-150-12	+12V @ 0-12.5A	150W	7.0x4.3x2.0	180	0.3	0.3	2	UL/CUL/TUV/CE/CB	34.95	32.49	29.95
323839	Mean Well	RS-150-12	+12V @ 0-12.5A	150W	7.8x3.9x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	39.95	34.95	29.95
173421	Mean Well	SP-150-12	+12V @ 0-12.5A	150W	7.0x3.9x2.0	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	56.95	49.95	44.95
2094848	Mean Well	HRPG-150-12	+12V @ 0-13A	156W	6.3x3.8x1.5	120	0.5	0.3	6	UL/CUL/TUV/CE/CB/PFC	84.95	79.95	74.95
194774	Mean Well	SP-200-12	+12V @ 0-16.7A	200.4W	7.0x3.9x2.0	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	62.95	58.95	54.95
2101497	Mean Well	SP-240-12	+12V @ 0-20A	240W	7.5x3.7x2.0	150	0.5	0.3	3	UL/CUL/TUV/CE/CB/PFC	64.95	59.95	55.95

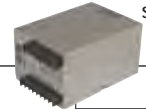
\* Primary Output

More Enclosed Switching Power Supplies on pages 127 & 129-132

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.



## Enclosed Switching AC-to-DC Power Supplies (Continued)



SP-500

★ Web Code: EPS

			Output			Ripple & Noise	Load Reg.	Line Reg.	Additional Info		Pricing		
Part No.	Manufacturer	Mfr. Part No.	Voltage @ Current(min-max)	Power	Size (L"xW"xH")	(mV p-p)*	(±%)*	(±%)*	Pg. 128†	Certification	1	5	25
Single Output (Continued)													
207204	Mean Well	S-320-12	+12V @ 0-25A	300W	8.5x4.5x2.0	150	0.5	0.5	2	UL/CUL	\$69.95	\$64.95	\$59.95
244743	Mean Well	SP-320-12	+12V @ 0-25A at 230VAC; 0-20A @ 115VAC	300W	8.5x4.5x2.0	150	0.5	0.3	3	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	64.95
2102203	Mean Well	HRP-300-12	+12V @ 0-27A	324W	7.8x4.1x1.6	120	0.5	0.3	3	UL/CUL/TUV/CE/CB/PFC	114.95	104.95	94.95
2094872	Mean Well	HRPG-300-12	+12V @ 0-27A	324W	7.8x4.1x1.6	120	0.5	0.3	6	UL/CUL/TUV/CE/CB/PFC	119.95	114.95	109.95
2094928	Mean Well	SE450-12	+12V @ 0-37.5A	450W	8.9x4.9x2.0	200	1.0	0.5	2	UL/CUL/TUV/CE/CB/PFC	99.95	92.95	86.95
301373	Mean Well	SP-480-12	+12V @ 0-40A at 230VAC; 0-36A @ 115VAC	480W	10.9x5.0x1.7	120	0.5	0.3	3	UL/CUL/TUV/CE/CB/PFC	154.95	144.95	134.95
190693	Mean Well	SP-500-12	+12V @ 0-40A at 230VAC; 0-34A @ 115VAC	480W	6.7x4.7x3.7	240	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	149.95	139.95	129.95
374011	Mean Well	SE-600-12	+12V @ 0-50A	600W	9.7x5.0x2.5	150	0.5	0.5	2	UL/CUL	114.95	106.95	99.95
374214	Mean Well	PSP-600-12	+12V @ 0-50A	600W	6.7x4.7x3.7	240	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	149.95	139.95	125.95
388631	Mean Well	SCP-600-12	+12V @ 0-50A	600W	11.4x4.7x2.7	120	0.5	0.5	5	UL/CUL/TUV/CE/CB	179.95	164.95	154.95
2094961	Mean Well	HRPG-600-12	+12V @ 0-53A	636W	8.6x4.1x2.5	120	0.5	0.3	6	UL/CUL/TUV/CE/CB/PFC	189.95	174.95	164.95
319944	Mean Well	SP-750-12	+12V @ 0-62A	750W	10.9x5.0x2.5	120	0.5	0.3	3	UL/CUL/TUV/CE/CB	229.95	214.95	199.95
217366	Mean Well	PSP-1000-12	+12V @ 0-75A at 230VAC; 0-63.8A @ 115VAC	900W	10.9x5.1x5.0	150	0.5	0.3	5	UL/CUL/TUV/CE/CB/PFC	399.95	369.95	349.95
373261	Mean Well	PSP-1500-12	+12V @ 0-112.5A	1350W	10.9x5.1x7.5	150	0.5	0.3	5	UL/CUL/TUV/CE/CB/PFC	449.95	399.95	369.95
202025	Mean Well	S-150-13.5	+13.5V @ 0-11.2A	151.2W	7.0x4.3x2.0	180	0.3	0.3	2	UL/CUL/TUV/CE/CB	34.95	32.49	29.95
394193	Mean Well	SP-150-13.5	+13.5V @ 0-11.2A	151.2W	7.0x3.9x2.0	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	56.95	49.95	44.95
212410	Mean Well	SP-200-13.5	+13.5V @ 0-14.9A	201.1W	7.0x3.9x2.0	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	62.95	58.95	54.95
693572	Mean Well	S-320-13.5	+13.5V @ 0-22A	297W	8.5x4.5x2.0	150	0.5	0.5	2	UL/CUL	69.95	64.95	59.95
693599	Mean Well	SP-320-13.5	+13.5V @ 0-22A	297W	8.5x4.5x2.0	150	0.5	0.3	3	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	64.95
212389	Mean Well	SP-500-13.5	+13.5V @ 0-36A at 230VAC; 0-30.6A @ 115VAC	486W	6.7x4.7x3.7	240	0.5	0.5	3	UL/CUL/TUV/CE/CB	149.95	139.95	129.95
2105439	Mean Well	AD-155A	+13.8V @ 0-5A 10.5A	151.6W	7.8x4.3x2.0	150	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	64.95	54.95	49.95
1919060	Mean Well	RS-15-15	+15V @ 0-1A	15W	2.5x2.0x1.1	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	16.95	12.95	10.95
123263	Mean Well	S-25-15	+15V @ 0-1.7A	25.5W	3.9x3.8x1.4	100	0.5	0.5	2	UL/TUV/CE	19.95	16.95	14.95
323302	Mean Well	RS-25-15	+15V @ 0-1.7A	25.5W	3.0x2.0x1.1	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	19.95	16.49	13.95
323345	Mean Well	RS-35-15	+15V @ 0-2.4A	36W	3.9x3.2x1.4	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	21.95	17.95	14.95
155053	Skynet	SNP-9548-M1	+15V @ 2.6A	39W	5.0x3.0x1.2	100	1.0	1.0	—	UL/CUL/CSA	16.95	15.49	13.95
202140	Mean Well	S-40-15	+15V @ 0-2.8A	42W	5.1x3.9x1.5	100	0.5	0.5	2	UL/CUL/TUV/CE/CB	22.95	19.95	17.95
323409	Mean Well	RS-50-15	+15V @ 0-3.4A	51W	3.9x3.8x1.4	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	23.95	19.95	16.95
123343	Mean Well	S-60-15	+15V @ 0-4A	60W	6.3x3.8x1.5	150	0.5	0.5	2	UL/CUL/TUV/CE/CB	26.95	22.95	19.95
323602	Mean Well	RS-75-15	+15V @ 0-5A	75W	5.1x3.9x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	28.95	23.95	19.49
212450	Mean Well	S-100F-15	+15V @ 0-6.7A	100.5W	7.8x3.9x1.5	125	0.5	0.5	2	UL/CUL/TUV/CE/CB	32.95	26.95	23.95
212433	Mean Well	SP-100-15	+15V @ 0-6.7A	100.5W	7.0x3.9x1.8	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	46.95	41.95	36.95
323724	Mean Well	RS-100-15	+15V @ 0-7A	105W	6.3x3.8x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	39.95	32.95	26.95
123432	Mean Well	S-150-15	+15V @ 0-10A	150W	7.0x4.3x2.0	180	0.3	0.3	2	UL/CUL/TUV/CE/CB	34.95	32.49	29.95
323847	Mean Well	RS-150-15	+15V @ 0-10A	150W	7.8x3.9x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	39.95	34.95	29.95
173412	Mean Well	SP-150-15	+15V @ 0-10A	150W	7.0x3.9x2.0	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	56.95	49.95	44.95
2094856	Mean Well	HRPG-150-15	+15V @ 0-10A	150W	6.3x3.8x1.5	150	0.5	0.3	6	UL/CUL/TUV/CE/CB/PFC	84.95	79.95	74.95
202060	Mean Well	SP-200-15	+15V @ 0-13.4A	201W	7.0x3.9x2.0	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	56.95	49.95	44.95
202076	Mean Well	S-240-15	+15V @ 0-15A	225W	7.5x3.7x2.6	150	0.5	0.5	2	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	66.95
374993	Mean Well	S-320-15	+15V @ 0-20A	300W	8.5x4.5x2.0	150	0.5	0.5	2	UL/CUL	74.95	69.95	64.95
693610	Mean Well	SP-320-15	+15V @ 0-20A	300W	8.5x4.5x2.0	150	0.5	0.3	3	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	64.95
693652	Mean Well	SP-480-15	+15V @ 0-35A	480W	10.9x5.0x1.7	150	0.5	0.3	3	UL/CUL/TUV/CE/CB/PFC	154.95	144.95	134.95
291522	Mean Well	SE-600-15	+15V @ 0-40A	600W	9.7x5.0x2.5	150	0.5	0.5	2	UL/CUL	114.95	106.95	99.95
374222	Mean Well	PSP-600-15	+15V @ 0-40A	600W	6.7x4.7x3.7	240	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	149.95	139.95	125.95
374045	Mean Well	SCN-600-15	+15V @ 0-40A	600W	11.5x5.2x2.7	150	0.5	0.5	4	UL/CUL/CB	179.95	159.95	144.95
2094901	Mean Well	HRPG-600-15	+15V @ 0-43A	645W	8.6x4.1x2.5	150	0.5	0.3	6	UL/CUL/TUV/CE/CB/PFC	189.95	174.95	164.95
694920	Mean Well	RSP-1500-15	+15V @ 0-100A	1500W	10.9x5.0x3.3	150	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	424.95	389.95	359.95
1919078	Mean Well	RS-15-24	+24V @ 0-0.625A	15W	2.5x2.0x1.1	200	0.5	0.5	1	UL/CUL/TUV/CE/CB	16.95	12.95	10.95
123272	Mean Well	S-25-24	+24V @ 0-1.1A	26.4W	3.9x3.8x1.4	100	0.5	0.5	2	UL/TUV/CE	19.95	16.95	14.95
323311	Mean Well	RS-25-24	+24V @ 0-1.1A	26.4W	3.0x2.0x1.1	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	19.95	16.49	13.95
323353	Mean Well	RS-35-24	+24V @ 0-1.5A	36W	3.9x3.2x1.4	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	21.95	17.95	14.95
689792	Metapo	1M041C24-1M	+24V @ 0-1.8A	43W	4.8x3.8x1.5	100	—	—	—	UL/CUL/TUV/CE	19.95	17.95	15.95
123319	Mean Well	S-40-24	+24V @ 0-1.8A	43W	5.1x3.9x1.5	100	0.5	0.5	2	UL/CUL/TUV/CE/CB	22.95	19.95	17.95
2104225	Mean Well	NES-50-24	+24V @ 0-2.2A	52.8W	5.1x3.9x1.5	200	0.5	0.5	—	UL/CUL/CE/CB	24.95	18.95	15.95
323417	Mean Well	RS-50-24	+24V @ 0-2.2A	52.8W	3.9x3.8x1.4	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	23.95	19.95	16.95
123352	Mean Well	S-60-24	+24V @ 0-2.5A	60W	6.3x3.8x1.5	150	0.5	0.5	2	UL/CUL/TUV/CE/CB	26.95	22.95	19.95
323620	Mean Well	RS-75-24	+24V @ 0-3.2A	76.8W	5.1x3.9x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	28.95	23.95	19.49
2104250	Mean Well	NES-75-24	+24V @ 0-3.2A	76.8W	6.3x3.8x1.5	200	0.5	0.5	—	UL/CUL/CE/CB	29.95	22.95	18.49
194854	Mean Well	SP-75-24	+24V @ 0-3.2A	76.8W	7.0x3.9x1.3	100	0.5	0.5	3	UL/CUL/TUV/CE/CB	42.95	36.95	31.95
194812	Mean Well	SP-100-24	+24V @ 0-4.2A	100.8W	7.0x3.9x1.8	150	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	46.95	41.95	36.95

\* Primary Output

More Enclosed Switching Power Supplies on pages 127-128 & 130-132

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# Enclosed Switching AC-to-DC Power Supplies

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## Enclosed Switching AC-to-DC Power Supplies (Continued)



PSP-500

\*Web Code: EPS

Part No.	Manufacturer	Mfr. Part No.	Output		Size (L"xW"xH")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Additional Info Pg. 128†	Certification	Pricing		
			Voltage @ Current (min-max)	Power							1	5	25
Single Output (Continued)													
201971	Mean Well	S-100F-24	+24V @ 0-4.5A	108W	7.8x3.9x1.5	150	0.5	0.5	2	UL/TUV/CE/CB	\$32.95	\$26.95	\$23.95
323732	Mean Well	RS-100-24	+24V @ 0-4.5A	108W	6.3x3.8x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	39.95	32.95	26.95
155651	Power One	MAP110-1024CM	+24V @ 5A or +28V @ 4.3A	110W	7.0x4.3x1.8	240	0.5	1.0	—	UL/CSA/TUV	29.95	26.95	24.95
1945920	APS	RP1150-24C	+24V @ 0-6.25A	150W	7.5x4.2x2.0	100	1.0	1.0	—	UL/CE	34.95	29.95	26.95
173404	Mean Well	SP-150-24	+24V @ 0-6.25A	150W	7.0x3.9x2.0	150	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	56.95	49.95	44.95
371012	Potrans	GL150W-24-NC	+24V @ 6.5A	156W	7.8x3.7x2.5	180	2.0	2.0	—	UL/CUL/TUV/CE	26.95	23.95	21.49
123450	Mean Well	S-150-24	+24V @ 0-6.5A	156W	7.0x4.3x2.0	240	0.2	0.2	2	UL/CUL/TUV/CE/CB	34.95	32.49	29.95
2079429	PowerLD	PD-150-24	+24V @ 0-6.5A	156W	7.8x3.9x1.5	120	1.0	0.5	—	UL/CUL/CE	35.95	32.95	29.95
323855	Mean Well	RS-150-24	+24V @ 0-6.5A	156W	7.8x3.9x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	39.95	34.95	29.95
2094864	Mean Well	HRPG-150-24	+24V @ 0-6.5A	156W	6.3x3.8x1.5	150	0.5	0.3	6	UL/CUL/TUV/CE/CB/PFC	84.95	79.95	74.95
194782	Mean Well	SP-200-24	+24V @ 0-8.4A	201.6W	7.0x3.9x2.0	150	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	62.95	58.95	54.95
137657	Mean Well	S-240-24	+24V @ 0-10A	240W	7.5x3.7x2.6	180	0.5	0.5	2	UL/CUL/TUV/CE/CB/PFC	79.95	74.95	69.95
2101518	Mean Well	SP-240-24	+24V @ 0-10A	240W	7.5x3.7x2.0	150	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	64.95	59.95	55.95
196657	Mean Well	S-320-24	+24V @ 0-12.5A	300W	8.5x4.5x2.0	150	0.5	0.5	2	UL/CUL	69.95	64.95	59.95
244752	Mean Well	SP-320-24	+24V @ 0-13.0A @ 230VAC; 0-10.4A @ 115VAC	312W	8.5x4.5x2.0	150	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	64.95
2102220	Mean Well	HRP-300-24	+24V @ 0-14A	336W	7.7x4.1x1.6	150	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	114.95	104.95	94.95
2094881	Mean Well	HRPG-300-24	+24V @ 0-14A	336W	7.8x4.1x1.6	150	0.5	0.3	6	UL/CUL/TUV/CE/CB/PFC	119.95	114.95	109.95
2101606	Mean Well	SE-450-24	+24V @ 0-18.8A	451.2W	8.9x4.9x2.0	200	0.5	0.2	—	UL/CUL	99.95	92.95	86.95
301322	Mean Well	SP-480-24	+24V @ 0-20.0A @ 230VAC; 0-18A @ 115VAC	480W	10.9x5.0x1.7	150	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	154.95	144.95	134.95
147054	Mean Well	SP-500-24	+24V @ 0-20.0A @ 230VAC; 0-17A @ 115VAC	480W	6.7x4.7x3.7	240	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	149.95	139.95	129.95
295902	Mean Well	SE-600-24	+24V @ 0-25A	600W	9.7x5.0x2.5	150	0.5	0.5	2	UL/CUL	114.95	106.95	99.95
374231	Mean Well	PSP-600-24	+24V @ 0-25A	600W	6.7x4.7x3.7	240	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	149.95	139.95	125.95
320048	Mean Well	SP-750-24	+24V @ 0-31.3A	750W	10.9x5.0x2.5	120	0.5	0.2	3	UL/CUL/TUV/CE/CB	219.95	199.95	184.95
374310	Mean Well	SCP-800-24	+24V @ 0-33A	792W	11.4x4.7x2.7	240	0.5	0.5	5	UL/CUL/TUV/CE/CB	229.95	209.95	199.95
1585717	Mean Well	RSP-1000-24	+24V @ 0-40A	960W	11.6x5.0x1.6	150	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	319.95	299.95	279.95
2101569	Mean Well	RE-1000-24	+24V @ 0-41.7A	1000.8W	10.9x5.0x2.5	200	0.5	0.5	4	UL/CUL	209.95	184.95	164.95
373923	Mean Well	PSP-1500-24	+24V @ 0-56.4A	1353.6W	10.9x5.1x7.5	150	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	449.95	424.95	399.95
2103353	Mean Well	SE-1500-24	+24V @ 0-62.5A	1500W	10.9x6.9x2.5	150	0.5	0.5	—	UL/CUL	369.95	332.95	299.95
694938	Mean Well	RSP-1500-24	+24V @ 0-63A	1512W	10.9x5.0x3.3	150	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	424.95	389.95	359.95
693409	Mean Well	SP-75-27	+27V @ 0-2.8A	75.6W	7.0x3.9x1.3	100	0.5	0.5	3	UL/CUL/TUV/CE/CB	42.95	36.95	31.95
202033	Mean Well	S-150-27	+27V @ 0-5.6A	151.2W	7.0x4.3x2.0	240	0.2	0.2	2	UL/CUL/TUV/CE/CB	34.95	32.49	29.95
693513	Mean Well	SP-150-27	+27V @ 0-5.6A	151.2W	7.8x3.9x2.0	150	0.5	0.5	—	UL/CUL/TUV/CE/CB/PFC	56.95	49.95	44.95
693548	Mean Well	SP-200-27	+27V @ 0-7.5A	202.5W	7.0x3.9x2.0	150	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	62.95	58.95	54.95
693581	Mean Well	S-320-27	+27V @ 0-11.0A	297W	8.5x4.5x2.0	200	0.5	0.5	2	UL/CUL	69.95	64.95	59.95
693628	Mean Well	SP-320-27	+27V @ 0-11.7A	315.9W	8.5x4.5x2.0	200	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	64.95
190706	Mean Well	SP-500-27	+27V @ 0-18A @ 230VAC; 0-15.3A @ 115VAC	486W	6.7x4.7x3.7	200	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	149.95	139.95	129.95
295911	Mean Well	SE-600-27	+27V @ 0-22.2A	599.4W	9.7x5.0x2.5	150	0.5	0.5	2	UL/CUL	114.95	106.95	99.95
374257	Mean Well	PSP-600-27	+27V @ 0-22.2A	600W	6.7x4.7x3.7	240	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	149.95	139.95	125.95
374038	Mean Well	SP-750-27	+27V @ 0-27.8A	750W	10.9x5.0x2.5	120	0.5	0.2	3	UL/CUL/TUV/CE/CB	219.95	199.95	184.95
231652	Mean Well	PSP-1000-27	+27V @ 0-33.6A @ 230VAC; 0-28.6A @ 115VAC	907.2W	10.9x5.1x5.0	150	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	419.95	374.95	344.95
1585709	Mean Well	RSP-1000-27	+27V @ 0-37.0A	999W	11.6x5.0x1.6	150	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	319.95	299.95	279.95
231714	Mean Well	PSP-1500-27	+27V @ 0-50.4A	1360.8W	10.9x5.1x7.5	150	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	449.95	424.95	399.95
694946	Mean Well	RSP-1500-27	+27V @ 0-56.0A	1512W	10.9x5.0x3.3	150	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	424.95	389.95	359.95
392834	Mean Well	S-240-30	+30V @ 0-8A	240W	7.5x3.7x2.6	180	0.5	0.5	2	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	66.95
2102473	Mean Well	SP-240-30	+30V @ 0-8A	240W	7.5x3.7x2.0	150	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	64.95	59.95	55.95
2101753	Mean Well	HRPG-600-36	+36V @ 0-17.5A	630W	8.6x4.1x2.5	200	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	189.95	174.95	164.95
693249	Mean Well	RS-50-48	+48V @ 0-1.1A	52.8W	3.9x3.8x1.4	200	0.5	0.5	1	UL/CUL/TUV/CE/CB	23.95	19.95	16.95
216805	Mean Well	SP-75-48	+48V @ 0-1.6A	76.8W	7.0x3.9x1.3	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	42.95	36.95	31.95
216793	Mean Well	S-100F-48	+48V @ 0-2.2A	105.6W	7.8x3.9x1.5	150	0.5	0.5	2	UL/TUV/CE/CB	32.95	26.95	23.95
167346	Mean Well	S-150-48	+48V @ 0-3.2A	153.6W	7.0x4.3x2.0	240	0.2	0.2	2	UL/CUL/TUV/CE/CB	34.95	32.49	29.95
201929	Mean Well	SP-150-48	+48V @ 0-3.2A	154W	7.0x3.9x2.0	250	0.5	0.5	3	UL/CUL/TUV/CE	39.95	35.95	32.95
201930	Mean Well	SP-150-48	+48V @ 0-3.2A	153.6W	7.0x3.9x2.0	250	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	56.95	49.95	44.95
323863	Mean Well	RS-150-48	+48V @ 0-3.3A	158.4W	7.8x3.9x1.5	200	0.5	0.5	1	UL/CUL/TUV/CE/CB	39.95	34.95	29.95
202068	Mean Well	SP-200-48	+48V @ 0-4.2A	201.6W	7.0x3.9x2.0	250	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	62.95	58.95	54.95
2102481	Mean Well	SP-240-48	+48V @ 0-5A	240W	7.5x3.7x2.0	150	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	64.95	59.95	55.95
689776	Metapo	1M321C48-0M	+48V @ 0-6.5A	312W	7.5x4.5x2.0	240	0.5	0.5	—	UL/CUL	64.95	59.95	54.95
207191	Mean Well	S-320-48	+48V @ 0-6.5A	312W	8.5x4.5x2.0	240	0.5	0.5	2	UL/CUL	69.95	64.95	59.95
244770	Mean Well	SP-320-48	+48V @ 0-6.7A @ 230VAC; 0-5.4A @ 115VAC	321.6W	8.5x4.5x2.0	240	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	74.95	69.95	64.95
2105164	Mean Well	SE-450-48	+48V @ 0-9.4A	451.2W	8.9x4.9x2.0	200	0.5	0.2	—	UL/CUL	99.95	92.95	86.95

\*Primary Output

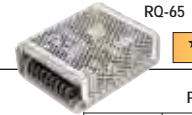
More Enclosed Switching Power Supplies on page 127-129 & 131-132

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.





## Enclosed Switching AC-to-DC Power Supplies (Continued)



RQ-65

\*Web Code: EPS

Part No.	Manufacturer	Mfr. Part No.	Output		Size (L"xW"xH")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Additional Info Pg. 128†	Certification	Pricing			
			Voltage @ Current (min-max)	Power							1	5	25	
Single Output (Continued)														
301402	Mean Well	SP-480-48	+48V @ 0-10.0A at 230VAC; 0-9A @ 115VAC		480W	10.9x5.0x1.7	240	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	\$154.95	\$144.95	\$134.95
161796	Mean Well	SP-500-48	+48V @ 0-10.0A at 230VAC; 0-8.5A @ 115VAC		480W	6.7x4.7x3.7	300	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	149.95	139.95	129.95
190749	Mean Well	PSP-500-48	+48V @ 0-10.5A at 230VAC; 0-8.4A @ 115VAC		504W	10.9x5.1x7.5	200	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	219.95	209.95	199.95
295929	Mean Well	SE-600-48	+48V @ 0-12.5A		600W	9.7x5.0x2.5	200	0.5	0.5	2	UL/CUL	114.95	106.95	99.95
374249	Mean Well	PSP-600-48	+48V @ 0-12.5A		600W	6.7x4.7x3.7	240	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	149.95	139.95	125.95
217350	Mean Well	PSP-1000-48	+48V @ 0-19.0A at 230VAC; 0-16.2A @ 115VAC		912W	10.9x5.1x5.0	200	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	449.95	419.95	394.95
1585725	Mean Well	RSP-1000-48	+48V @ 0-21.0A		1008W	11.6x5.0x1.6	150	0.5	0.5	5	UL/CUL/TUV/CE/CB	319.95	299.95	279.95
231722	Mean Well	PSP-1500-48	+48V @ 0-28.5A		1368W	10.9x5.1x7.5	200	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	474.95	434.95	399.95
694954	Mean Well	RSP-1500-48	+48V @ 0-32.0A		1536W	10.9x5.0x3.3	200	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	424.95	389.95	359.95
Double Output														
323362	Mean Well	RD-35A	+5V @ 0.3-4A; +12V @ 0.2-1A		32W	3.9x3.2x1.4	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	\$28.95	\$26.95	\$24.95
323380	Mean Well	RD-35B	+5V @ 0.3-4A; +24V @ 0.2-1.3A		51.2W	3.9x3.2x1.4	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	28.95	26.95	24.95
323425	Mean Well	RD-50A	+5V @ 0.3-6A; +12V @ 0.3-3A		54W	3.9x3.8x1.4	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	32.95	29.95	27.49
323433	Mean Well	RD-50B	+5V @ 0.3-6A; +24V @ 0.2-2A		53.6W	3.9x3.8x1.4	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	32.95	29.95	27.49
123458	Mean Well	D-60A	+5V @ 0.3-4A; +12V @ 0.2-3A		56W	6.3x3.8x1.5	75	0.5	0.5	2	UL/CUL/TUV/CE/CB	29.95	27.95	25.95
123466	Mean Well	D-60B	+5V @ 0.3-3A; +24V @ 0.2-1.8A		58W	6.3x3.8x1.5	75	0.5	0.5	2	UL/CUL/TUV/CE/CB	29.95	27.95	25.95
323505	Mean Well	RD-65A	+5V @ 0.3-8A; +12V @ 0.2-4A		66W	5.1x3.9x1.5	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	35.95	32.95	29.95
323513	Mean Well	RD-65B	+5V @ 0.3-8A; +24V @ 0.2-3A		68W	5.1x3.9x1.5	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	35.95	32.95	29.95
323628	Mean Well	RD-85A	+5V @ 2.0-10A; +12V @ 0.3-5A		88W	6.3x3.8x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	51.95	48.95	45.95
132410	Mean Well	D-120A	+5V @ 2.0-12A; +12V @ 0.5-5A		120W	7.0x3.9x2.0	60	0.5	0.5	2	UL/CUL/TUV/CE/CB	43.95	39.95	36.95
132397	Mean Well	D-120B	+5V @ 2.0-6A; +24V @ 0.4-4A		126W	7.0x3.9x2.0	60	0.5	0.5	2	UL/CUL/TUV/CE/CB	49.95	46.95	43.95
323741	Mean Well	RD-125A	+5V @ 2.0-15A; +12V @ 0.5-10A		130.9W	7.8x3.9x1.5	80	3.0	1.0	1	UL/CUL/TUV/CE/CB	53.95	49.95	46.95
323759	Mean Well	RD-125B	+5V @ 2.0-10A; +24V @ 0.4-5A		133.4W	7.8x3.9x1.5	80	3.0	1.0	1	UL/CUL/TUV/CE/CB	53.95	49.95	46.95
2106124	Mean Well	RD-125-1224	+12V @ 1.0-3.7A; +24V @ 0.4-3.7A		133.2W	7.8x3.9x1.5	120	1.0	0.5	1	UL/CUL/TUV/CE/CB	53.95	49.95	46.95
Triple Output														
201989	Mean Well	T-40A	+5V @ 0.6-3A; +12V @ 0.2-2A; -5V @ 0.1-0.5A		41.5W	5.1x3.9x1.5	100	0.5	0.5	2	CSA/CE	\$29.95	\$27.95	\$25.95
201997	Mean Well	T-40B	+5V @ 0.6-3A; +12V @ 0.2-2A; -12V @ 0.1-0.5A		45W	5.1x3.9x1.5	100	0.5	0.5	2	CSA/CE	29.95	27.95	25.95
202009	Mean Well	T-40C	+5V @ 0.6-3A; +15V @ 0.2-1.5A; -15V @ 0.1-0.5A		45W	5.1x3.9x1.5	100	0.5	0.5	2	CSA/CE	29.95	27.95	25.95
323442	Mean Well	RT-50A	+5V @ 0.5-5A; +12V @ 0.2-2.5A; -5V @ 0.5-5A		46.5W	3.9x3.8x1.4	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	29.95	27.49	24.95
323460	Mean Well	RT-50B	+5V @ 0.5-5A; +12V @ 0.2-2.5A; -12V @ 0.1-1A		50W	3.9x3.8x1.4	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	33.95	31.95	29.95
323468	Mean Well	RT-50C	+5V @ 0.5A; +15V @ 0.2-2A; -15V @ 0.1-1A		50W	3.9x3.8x1.4	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	33.95	31.95	29.95
323476	Mean Well	RT-50D	+5V @ 0.5-5A; +12V @ 0.1-1A; +24V @ 0.2-1.5A		51W	3.9x3.8x1.4	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	33.95	31.95	29.95
123482	Mean Well	T-60B	+5V @ 0.5-5A; +12V @ 0.2-2.5A; -12V @ 0-0.5A		61W	6.3x3.8x1.5	100	1.0	0.5	2	UL/CUL/TUV/CE/CB	33.95	31.95	29.95
123491	Mean Well	T-60C	+5V @ 0.5-5A; +15V @ 0.2-2A; -15V @ 0-0.5A		62.5W	6.3x3.8x1.5	100	1.0	0.5	2	UL/CUL/TUV/CE/CB	33.95	31.95	29.95
323540	Mean Well	RT-65B	+5V @ 0.5-8A; +12V @ 0.2-3.5A; -12V @ 0-1A		64.6W	5.1x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	38.95	35.95	33.95
323548	Mean Well	RT-65C	+5V @ 0.5-8A; +15V @ 0.2-3A; -15V @ 0-1A		65.5W	5.1x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	38.95	35.95	33.95
323555	Mean Well	RT-65D	+5V @ 0.5-8A; +12V @ 0.1-1A; +24V @ 0.2-2A		68W	5.1x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	38.95	35.95	33.95
323661	Mean Well	RT-85C	+5V @ 2-10A; +15V @ 0.3-4A; -15V @ 0-1A		87.5W	6.3x3.8x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	33.95	31.95	29.95
323678	Mean Well	RT-85D	+5V @ 2-10A; +12V @ 0.1-1A; +24V @ 0.3-2.5A		90W	6.3x3.8x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	29.95	26.95	23.95
213794	Mean Well	TP-100A	+5V @ 3-10A; +12V @ 0.4-4A; -5V @ 0-0.6A		100W	7.8x3.9x2.0	100	3.0	1.0	3	UL/CUL/TUV/CE/CB/PFC	59.95	56.95	53.95
301509	Mean Well	T-120B	+5V @ 2-12A; +12V @ 0.5-5A; -12V @ 0.2-1A		121W	7.0x3.9x2.0	80	0.5	0.5	2	UL/CUL/TUV/CE/CB	52.95	48.95	44.95
323767	Mean Well	RT-125A	+5V @ 2-15A; +12V @ 0.5-6A; -5V @ 0.1-1A		131W	7.8x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	39.95	36.95	33.95
323775	Mean Well	RT-125B	+5V @ 2-15A; +12V @ 0.5-6A; -12V @ 0.1-1A		132W	7.8x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	54.95	49.95	46.95
323783	Mean Well	RT-125C	+5V @ 2-15A; +15V @ 0.5-6A; -15V @ 0.1-1A		132.5W	7.8x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	54.95	49.95	46.95
323792	Mean Well	RT-125D	+5V @ 2-15A; +12V @ 0.1-2A; +24V @ 0.4-4A		136W	7.8x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	54.95	49.95	46.95
213832	Mean Well	TP-150C	+5V @ 2-15A; +15V @ 0.4-4.5A; -15V @ 0-0.6A		151.5W	7.8x3.9x2.0	100	3.0	1.0	3	UL/CUL/TUV/CE/CB/PFC	69.95	64.95	59.95
Quad Output														
323484	Mean Well	RQ-50B	+5V @ 0.5-6A; +12V @ 0.2-1.5A; -5V @ 0-1A; -12V @ 0-1A		45.5W	3.9x3.8x1.4	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	\$35.95	\$33.95	\$31.95
147045	Mean Well	Q-60B	+5V @ 0.5-5.5A; +12V @ 0.1-2A; -5V @ 0-0.5A; -12V @ 0-0.5A		60W	6.3x3.8x1.5	100	0.5	0.5	2	UL/CUL/CE	29.95	26.95	23.95
147046	Mean Well	Q-60B	+5V @ 0.5-5.5A; +12V @ 0.1-2A; -5V @ 0-0.5A; -12V @ 0-0.5A		60W	6.3x3.8x1.5	100	0.5	0.5	2	UL/CUL/CE/CB	39.95	35.95	32.95
323564	Mean Well	RQ-65B	+5V @ 0.5-8A; +12V @ 0.2-3A; -5V @ 0-1A; -12V @ 0-1A		62.5W	5.1x3.9x1.5	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	39.95	36.95	34.95
323572	Mean Well	RQ-65D	+5V @ 0.5-8A; +12V @ 0.2-3A; +24V @ 0.1-1.5A; -12V @ 0-1A		68W	5.1x3.9x1.5	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	39.95	36.95	34.95
323695	Mean Well	RQ-85D	+5V @ 2-10A; +12V @ 0.3-4A; +24V @ 0.1-1.5A; -12V @ 0-1A		84W	6.3x3.8x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	54.95	51.95	48.95
132389	Mean Well	Q-120B	+5V @ 2-11A; +12V @ 0.5-4A; -5V @ 0.2-1A; -12V @ 0.2-1A		120W	7.0x3.9x2.0	80	0.5	0.5	2	UL/CUL/TUV/CE/CB	46.95	42.95	38.95

\*Primary Output

More Enclosed Switching Power Supplies on pages 127-130 & 132

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Enclosed Power Supplies & Accessories

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

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## Enclosed Switching AC-to-DC Power Supplies (Continued)



RQ-125

\*Web Code: EPS

Part No.	Manufacturer	Mfr. Part No.	Output		Size (L"xW"xH")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Additional Info Pg. 128↑	Certification	Pricing		
			Voltage @ Current (min-max)	Power							1	5	25
Quad Output (Continued)													
132371	Mean Well	Q-120D	+5V @ 2-8A; +12V @ 0.2-2A; +24V @ 0.2-2A; -12V @ 0.2-1A	124W	7.0x3.9x2.0	80	0.5	0.5	2	UL/CUL/TUV/CE/CB	\$54.95	\$51.95	\$48.95
323812	Mean Well	RQ-125D	+5V @ 2-12A; +12V @ 0.5-4A; +24V @ 0.1-2.5A; -12V @ 0-1A	124W	7.8x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	58.95	54.95	51.95
213648	Mean Well	QP-150F	+5V @ 3-10A; +15V @ 0-3A; +24V @ 0.4-2A; -15V @ 0-0.6A	152W	7.8x3.9x1.5	120	2.0	1.0	3	UL/CUL/TUV/CE/CB/PFC	104.95	94.95	84.95
213752	Mean Well	QP-200D	+5V @ 3-15A; +12V @ 0-4A +24V @ 0.4-3A; -12V @ 0-0.7A	204.9W	7.8x3.9x2.0	100	2.0	1.0	3	UL/CUL/TUV/CE/CB/PFC	124.95	114.95	104.95

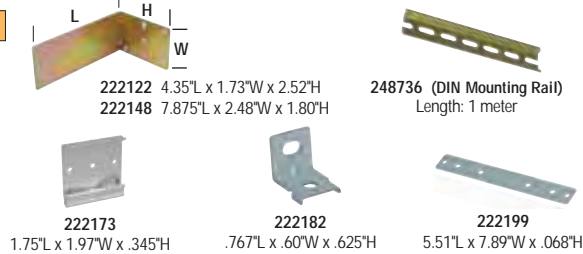
\*Primary Output

## Mounting Brackets & Accessories for Mean Well Enclosed Switching AC-to-DC Power Supplies

All brackets use metric screws: 2-F3 x 6, 2-F4 x 6, 2-T3 x 6, 2-T4 x 6 and 8-T4 x 6 (not included)

\*Web Code: MBM

Part No.	Product No.	For Models	1	10
222122	DRL-01	S-25/40, RS-25/35	\$ .99	\$ .89
222148	DRL-03	S-240/320, SP-320	1.95	1.75
222173	DRP-03	All Models	1.95	1.75
222182	MHS012	S-320/350, SP-100/150/200/320	.75	.65
222199	MHS025	SP-500, PSP-600	.95	.85
248736	2094.0	DR, DRH, DRP, DRT, MDR	6.95	6.29



**Mating Connector**  
 103588 \$1.20/10  
 Spade Solderless Terminal

**Crimp Tool**  
 72996 \$24.95  
 Solderless Terminal Crimp Tool

Pricing & specs on page 81



## LED Enclosed Power Supplies with Power Factor Correction

### For Indoor and Outdoor Applications

- Suitable for LED lighting & moving sign application
- Short-circuit/overload/overvoltage/overtemperature protection

**PLN Series** • Plastic case • Constant voltage and current  
• Working temperature: -30°C to 50°C

**CLG Series** • Metal case • Adjustable voltage and current  
• Working temperature: -30°C to 70°C

**H LG Series** • Metal case • Adjustable voltage and constant current • Inrush current: 75A/230VAC • Working temp.: -30°C to 60°C • Three-year warranty

- 100% full-load burn-in test
- Universal AC input/full range
- Inrush current: 40A/230VAC
- Two-year warranty
- Inrush current: 40A/230VAC
- Three-year warranty

- Cooling by free air convection
- UL1310 class 2 power unit
- Input voltage: 90-295VAC
- Input voltage: 90-295VAC

\*Web Code: LPP



PLN Series

Part No.	Manufacturer	Mfr. Part No.	Output		Size (L" x W" x H")	Ripple & Noise (mV p-p)*	Load Reg. (%)*	Line Reg. (%)*	Certification	Pricing		
			Voltage @ Current (min-max)	Power (W)						1	5	25
2120233	Advance	LED120A0012V10F#	+12V @ 1A	12	5.2 x 1.3 x 1.0	2000	5.0	1.0	UL/CUL/CSA	\$19.95	\$17.95	\$15.95
1954404	Mean Well	PLN-30-12	+12V @ 0-2.5A	30	5.7 x 1.9 x 1.2	2000	10.0	3.0	UL/CUL/TUV/CE	33.95	31.95	29.95
1918913	Mean Well	PLN-60-12	+12V @ 0-5A	60	7.1 x 2.4 x 1.4	2000	5.0	3.0	UL/CUL/TUV/CE/PFC	49.95	46.95	44.95
1918833	Mean Well	PLN-100-12	+12V @ 0-5A	60	7.9 x 2.8 x 1.4	150	2.0	1.0	UL/CUL/TUV/CE/PFC	59.95	54.95	49.95
1954877	Mean Well	CLG-150-12A	+12V @ 0-11A	132	8.7 x 2.7 x 1.5	150	1.0	0.5	UL/TUV/CE	84.95	79.95	74.95
2102123	Mean Well	HLG-240-12A	+12V @ 16A	240	9.6 x 2.7 x 1.5	150	2.0	0.5	CNS/EN/FCC/GB/TUV/UC	109.95	99.95	94.95
1918964	Mean Well	PLN-60-15	+15V @ 0-4A	60	7.1 x 2.4 x 1.4	2400	10.0	4.0	UL/CUL/TUV/CE	44.95	39.95	36.95
1919001	Mean Well	CLG-60-15†	+15V @ 0-4A	60	6.8 x 2.4 x 1.5	2400	10.0	4.0	UL/CUL/TUV/CE	54.95	49.95	46.95
1585856	Mean Well	CLG-100-15†	+15V @ 0-5A	75	8.7 x 2.7 x 1.5	150	2.0	1.0	UL/CUL/TUV/CE/PFC	64.95	59.95	56.95
1585864	Mean Well	CLG-100-20†	+20V @ 0-4.8A	96	8.7 x 2.7 x 1.5	150	2.0	1.0	UL/CUL/TUV/CE/PFC	64.95	59.95	56.95
1954412	Mean Well	PLN-30-24	+24V @ 0-1.25A	30	5.7 x 1.9 x 1.2	2600	10.0	3.0	UL/CUL/TUV/CE	29.95	26.95	23.95
1585872	Mean Well	CLG-100-24†	+24V @ 0-4A	96	8.7 x 2.7 x 1.5	150	2.0	1.0	UL/CUL/TUV/CE/PFC	69.95	64.95	59.95
1954885	Mean Well	CLG-150-24A	+24V @ 0-6.3A	150	8.7 x 2.7 x 1.5	150	1.0	0.5	UL/TUV/CE	84.95	79.95	74.95
2102140	Mean Well	HLG-240-24A††	+24V @ 10A	240	9.6 x 2.7 x 1.5	150	0.5	0.5	UL/CUL/TUV/CE/PFC	118.95	106.95	99.95
2100574	Mean Well	PLN-60-27	+27V @ 0-2.3A	62.1	7.1 x 2.4 x 1.4	2700	5.0	3.0	UL/CE	49.95	46.95	44.95
1585733	Mean Well	CLG-100-27†	+27V @ 0-3.55A	96	8.7 x 2.7 x 1.5	150	2.0	1.0	UL/CUL/TUV/CE/PFC	64.95	59.95	56.95
2101121	Mean Well	LPC-20-350	+48V @ 0-0.35A	16.8	4.6 x 1.4 x 1.0	200	2.0	1.0	UL/CUL	16.49	14.95	13.95
1585768	Mean Well	CLG-100-48†	+48V @ 0-2A	96	8.7 x 2.7 x 1.5	150	2.0	1.0	UL/CUL/TUV/CE/PFC	64.95	59.95	56.95

\* Primary Output # IP66 Rated, 120VAC † IP67 Rated †† Input voltage: 90-264VAC

**We're Listening to What You Need**

Our goal is to provide you with more of what you want. Let us know how we can better serve your electronic needs. Send feedback to [Management@Jameco.com](mailto:Management@Jameco.com).

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

# DIN-Rail Switching Power Supplies



## DIN-Rail Switching Power Supplies

- Short-circuit, overload, overvoltage protection
- Low cost, high reliability
- 100% full-load burn-in test

UL-508

- For DIN-Rail terminal blocks see pg 80
- Universal AC input range
- Soft-start circuit, limiting AC surge current

★ Web Code: RBY



373182 (Fig. 1)



1943300  
(Fig. 2)

Rail not included



192699 (Fig. 3)



1943393  
(Fig. 4)

Rail not included



1943449  
(Fig. 5)

Rail not included



212291 (Fig. 6)



212274 (Fig. 7)



2081086  
(Fig. 8)

Rail not included

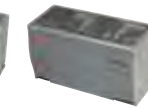


2101391  
(Fig. 9)

Rail not included



221892 (Fig. 10)



252663 (Fig. 11)



2094944  
(Fig. 12)

Rail not included

Part No.	Mfr. Part No.	Fig.	Output Volts @ Curr.	Pwr (W)	Input Voltage (VAC @ Hz/VDC)	Input Current @ Max Load	Size (L" x W" x H")	Wt. (lbs.)	1	5	25
2101243	DR-15-5	1	5VDC @ 2.4A	12	85-264 @ 47-63/120-370	0.88A(115V)/0.48A(230V)	1.0 x 3.7 x 2.2	0.2	\$21.49	\$19.95	\$18.95
373174	DR-30-5	1	5VDC @ 3A	15	85-264 @ 47-63/120-370	1.1A(115V)/0.6A(230V)	3.1 x 3.7 x 2.2	0.6	24.95	22.95	21.49
1943300	MDR-20-5	2	5VDC @ 3A	15	85-264 @ 47-63/120-370	0.55A(115V)/0.35A(230V)	3.9 x 0.9 x 3.5	0.4	25.95	24.49	22.95
212303	DR-450-5	3	5VDC @ 5A	25	85-264 @ 47-63/120-370	1.5A(115V)/0.75A(230V)	3.0 x 2.6 x 3.6	0.9	27.95	25.95	23.95
1943393	MDR-40-5	4	5VDC @ 6A	30	85-264 @ 47-63/120-370	1.1A(115V)/0.7A(230V)	3.9 x 1.6 x 3.5	0.6	32.95	31.49	29.95
1943449	MDR-60-5	5	5VDC @ 10A	50	85-264 @ 47-63/120-370	1.8A(115V)/1.0A(230V)	3.9 x 1.6 x 3.5	0.7	36.95	34.95	32.95
1952978	MDR-10-12	2	12VDC @ 0.84A	10	85-264 @ 47-63/120-370	0.33A(115V)/0.21A(230V)	3.9 x 0.9 x 3.5	0.4	21.95	20.49	19.49
2094952	DR-15-12	1	12VDC @ 1.25A	15	85-264 @ 47-63/120-370	0.88A(115V)/0.48A(230V)	3.7 x 1.0 x 2.2	0.2	21.49	19.95	18.95
1943334	MDR-20-12	2	12VDC @ 1.67A	20	85-264 @ 47-63/120-370	0.55A(115V)/0.35A(230V)	3.9 x 0.9 x 3.5	0.4	25.95	24.49	22.95
373182	DR-30-12	1	12VDC @ 2A	24	85-264 @ 47-63/120-370	1.1A(115V)/0.6A(230V)	3.1 x 3.7 x 2.2	0.6	24.95	22.95	21.49
1943406	MDR-40-12	4	12VDC @ 3.33A	40	85-264 @ 47-63/120-370	1.1A(115V)/0.7A(230V)	3.9 x 1.6 x 3.5	0.6	32.95	31.49	29.95
192699	DR-4512	3	12VDC @ 3.5A	42	85-264 @ 47-63/120-370	1.5A(115V)/0.75A(230V)	3.0 x 2.6 x 3.6	0.7	27.95	25.95	23.95
373230	DR-60-12	1	12VDC @ 4.5A	54	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	34.95	32.49	29.95
1943457	MDR-60-12	5	12VDC @ 5A	60	85-264 @ 47-63/120-370	1.8A(115V)/1.0A(230V)	3.9 x 1.6 x 3.5	0.7	36.95	34.95	32.95
212291	DR-75-12	6	12VDC @ 6.3A	75	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	44.95	42.49	39.95
1943511	DR-100-12	1	12VDC @ 7.5A	90	85-264 @ 47-63/124-370	3.0A(115V)/1.6A(230V)	3.9 x 3.7 x 2.2	0.8	49.95	44.95	39.95
1943481	MDR-100-12	5	12VDC @ 7.5A	90	85-264 @ 47-63/120-370	1.3A(155V)/0.8A(230V)	3.9 x 2.2 x 3.5	0.9	64.95	61.95	58.95
212274	DR-120-12	7	12VDC @ 10A	120	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	54.95	51.95	48.95
2099366	SDR-120-12	8	12VDC @ 10A	120	88-264/124-370 @ 47-63	1.4A(115V)/1.0A(230V)	4.5 x 1.6 x 4.9	1.5	74.95	69.95	64.95
2101391	DR-15-15	9	15VDC @ 1A	15	85-264 @ 47-63	0.88A(115V)/0.48A(230V)	3.7 x 1.0 x 2.2	0.2	21.49	19.95	18.95
1943342	MDR-20-15	2	15VDC @ 1.24A	20	85-264 @ 47-63/120-370	0.55A(115V)/0.35A(230V)	3.9 x 0.9 x 3.5	0.4	39.95	35.95	31.95
373238	DR-60-15	1	15VDC @ 4A	60	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	34.95	32.49	29.95
1952986	MDR-10-24	2	24VDC @ 0.42A	10	85-264 @ 47-63/120-370	0.33A(115V)/0.21A(230V)	3.9 x 0.9 x 3.5	0.4	21.95	20.49	19.49
1943385	MDR-20-24	2	24VDC @ 1A	24	85-264 @ 47-63/120-370	0.55A(115V)/0.35A(230V)	3.9 x 0.9 x 3.5	0.4	25.95	24.49	22.95
373203	DR-30-24	1	24VDC @ 1.5A	36	85-264 @ 47-63/120-370	1.1A(115V)/0.6A(230V)	3.1 x 3.7 x 2.2	0.6	24.95	22.95	21.49
1943422	MDR-40-24	4	24VDC @ 1.7A	40.8	85-264 @ 47-63/120-370	1.1A(115V)/0.7A(230V)	3.9 x 1.6 x 3.5	0.6	32.95	31.49	29.95
192681	DR-4524	3	24VDC @ 2A	48	85-264 @ 47-63/120-370	1.5A(115V)/0.75A(230V)	3.0 x 2.6 x 3.6	0.7	27.95	25.95	23.95
373246	DR-60-24	1	24VDC @ 2.5A	60	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	34.95	32.49	29.95
1943465	MDR-60-24	5	24VDC @ 2.5A	60	85-264 @ 47-63/120-370	1.8A(115V)/1.0A(230V)	3.9 x 1.6 x 3.5	0.7	36.95	34.95	32.95
212282	DR-75-24	6	24VDC @ 3.2A	75	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	44.95	42.49	39.95
1943490	MDR-100-24	5	24VDC @ 4A	90	85-264 @ 47-63/120-370	1.3A(155V)/0.8A(230V)	3.9 x 2.2 x 3.5	0.9	64.95	61.95	58.95
1943537	DR-100-24	1	24VDC @ 4.2A	100	88-264 @ 47-63/124-370	3.0A(115V)/1.6A(230V)	2.2 x 3.9 x 3.7	0.8	49.95	44.95	39.95
212266	DR-120-24	7	24VDC @ 5A	120	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	54.95	51.95	48.95
1953727	DRH-120-24	7	24VDC @ 5A	120	340-550 @ 47-63/480-780	0.65A(400V)/0.6A(500V)	3.9 x 2.6 x 4.9	1.7	74.95	69.95	64.95
2099374	SDR-120-24	8	24VDC @ 5A	120	88-264/124-370 @ 47-63	1.4A(115V)/1.0A(230V)	4.5 x 1.6 x 4.9	1.5	74.95	69.95	64.95
212892	DRP-240-24	10	24VDC @ 10A	240	85-264 @ 47-63/120-370	2.8A(115V)/1.4A(230V)	3.9 x 4.9 x 4.9	2.4	89.95	84.95	79.95
373123	DRT-240-24	10	24VDC @ 10A	240	3-phase 340-550 @ 47-63/480-780	0.95A(400V)/0.75A(500V)	3.9 x 4.9 x 4.9	2.9	94.95	89.95	84.95
2081086	SDR-240-24	8	24VDC @ 10A	240	88-264 @ 47-63/124-370	2.6A(115V)/1.3A(230V)	2.5 x 4.9 x 4.5	2.5	134.95	124.95	114.95
252663	DRP-480-24	11	24VDC @ 20A	480	180-264 @ 47-63/250-370	4.0A(230V)	8.9 x 3.9 x 4.9	4.6	139.95	129.95	119.95
295938	DRP-480S-24	11	24VDC @ 20A	480	90-132/180-264* @ 47-63/254-370	11.0A(115V)/4.0A(230V)	8.9 x 3.9 x 4.9	4.6	144.95	134.95	124.95
2094944	SDR-480-24	12	24VDC @ 20A	480	88-264 @ 47-63/124-370	2.6A(115V)/1.3A(230V)	4.9 x 3.4 x 5.0	4.9	209.95	194.95	184.95
373131	DRT-960-24	11	24VDC @ 40A	960	340-550 @ 47-63	2A(400V)/1.6A(500V)	10.9 x 3.9 x 4.9	7.3	299.95	269.95	239.95
1943431	MDR-40-48	4	48VDC @ 0.83A	39.8	85-264 @ 47-63/120-370	1.1A(115V)/0.7A(230V)	3.9 x 1.6 x 3.5	0.6	32.95	31.49	29.95
221904	DR-120-48	7	48VDC @ 2.5A	120	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	54.95	51.95	48.95
1953735	DRH-120-48	7	48VDC @ 2.5A	120	340-550 @ 47-63/480-780	0.65A(400V)/0.6A(500V)	3.9 x 2.6 x 4.9	1.7	69.95	64.95	59.95
212883	DRP-240-48	10	48VDC @ 5A	240	85-264 @ 47-63/120-370	3.5A(115V)/1.8A(230V)	3.9 x 4.9 x 4.9	2.4	89.95	84.95	79.95
2094936	SDR-240-48	8	48VDC @ 5A	240	88-264 @ 47-63/120-370	2.6A(115V)/1.3A(230V)	2.5 x 4.9 x 4.5	2.5	134.95	124.95	114.95
252655	DRP-480-48	11	48VDC @ 10A	480	180-264 @ 47-63/250-370	4.0A(230V)	8.9 x 3.9 x 4.9	4.6	139.95	129.95	119.95
301306	DRP-480S-48	11	48VDC @ 10A	480	90-132/180-264* @ 47-63/254-370	11.0A(115V)/4.0A(230V)	8.9 x 3.9 x 4.9	4.6	144.95	134.95	124.95
373106	DRT-480-48	11	48VDC @ 10A	480	3-phase 340-550 @ 47-63/480-750	1.7A(400V)/1.3A(500V)	8.9 x 3.9 x 4.9	5.5	69.95	64.95	59.95

\*Switch selectable ↑ With Power Factor Correction



## DIN Mounting Rail



Part No.	Mfr. Part No.	Description	Material	Type	Length	1	10	100
248736	2094.0	Prepunched DIN mounting rail	Zinc bichromate plate steel	TS35 x 7.5	1 meter (39")	\$6.95	\$6.29	\$5.49

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



Jameco carries the full line of Mean Well Power products. For additional products visit [www.Jameco.com/meanwellproducts](http://www.Jameco.com/meanwellproducts)



## Analog DIN-Rail Timers

Jameco offers a variety of analog timers for your precision applications. Series 642 timers (17.5mm side) and series 800 timers (22.5mm wide) feature an interruption of power reset function with a reset time of less than 100ms. Series 642 includes LED indicators for power and relay, series 800 (800SD) relay LED indicator, (800XC/SQA) power and relay LED indicator, (800POD) power LED indicator.

- DIN rail/back panel mount
- Finger safe terminals
- Analog display
- LED status indicator: power on and relay on, except for P/N 2125093 - Star/Delta relay on and P/N 2125085 - power on
- For more detailed information and specifications please proceed to our website at [www.Jameco.com](http://www.Jameco.com)



2125069



2125106



2125114/2125093/2125085

★ Web Code: DRT

Part No.	Product No.	# of Functions	Time Range	Contact Ratings	Supply Voltage	Size (mm)	1	5	25
2125069	642UX-	13 function and 8 ranges	3/10/30 (sec./min.) 3/10 (hrs.)	1 C/O (SPDT); 5A @ 230VAC; 24VDC resistive	20-240VAC 12-240VDC	17.5	\$34.95	\$31.49	\$28.95
2125106	800SQ-A-110	8 ranges, dual voltage	3/10/30/60 (sec./min.)	1 C/O (SPDT); 5A @ 230VAC; 24VDC resistive	110VAC 24VAC/DC	22.5	21.95	19.95	17.95
2125114	800XC	Cyclic with unequal on/off time	1/10 (sec./min./hr.) for both on/off time	2 C/O (DPDT); 5A @ 230VAC; 24VDC resistive	20 to 240VAC 12 to 240VDC	22.5	44.95	39.95	35.95
2125093	800SD-2-110	Star/Delta relay	30/60 seconds run up time; 50/100 msec. change over	1 C/O per relay, 5A @ 230VAC resistive	110VAC	22.5	32.95	29.95	26.95
2125085	800POD-60	True power off delay	60 seconds	2 C/O(DPDT); 2.5A @ 250VAC, 28VDC resistive	110 to 240 VAC/VDC	22.5	89.95	79.95	71.95

† For complete specs and additional functions search [www.Jameco.com/More](http://www.Jameco.com/More) and enter web code listed above

## Encapsulated Switching Power Supplies

★ Web Code: ESP

### PM-05/PM-10/PM-15/PM-20 Series:

- Universal AC input (85-264VAC @ 47Hz)
- Short-circuit, overload, overvoltage protection
- Ultra-miniature size
- UL/CUL/TUV/CE/CB
- Cooling by free air convection
- 100% full-load burn-in test
- Three-year warranty



Part No.	Manufacturer	Mfr. P/N	Output			Ripple & Noise (mVp-p)	Load Reg (±%)	Line Reg (±%)	Size (L" x W" x H")	Pricing		
			Volt.@Curr. (min-max)	Pwr (W)	Pins					1	10	50
1954527	Mean Well	PM-05-12	+12V @ 0-0.42A	5.04	4	150	1.0	0.5	2.5 x 2.0 x 0.8	\$15.49	\$14.49	\$13.49
1954551	Mean Well	PM-10-12	+12V @ 0-0.85A	10.2	4	150	1.0	0.5	2.8 x 2.0 x 0.9	17.49	16.49	15.49
1954586	Mean Well	PM-15-12	+12V @ 0-1.25A	15	4	150	1.0	0.5	3.0 x 2.1 x 0.9	20.95	19.95	18.95
1954367	Mean Well	PM-20-12	+12V @ 0-1.80A	21.6	6	150	1.0	0.5	3.7 x 2.2 x 0.9	22.95	21.49	19.95
1954535	Mean Well	PM-05-24	+24V @ 0-0.23A	5.52	4	240	0.5	0.5	2.5 x 2.0 x 0.8	15.49	14.49	13.49
1954560	Mean Well	PM-10-24	+24V @ 0-0.42A	10.1	4	240	0.5	0.5	2.8 x 2.0 x 0.9	17.49	16.49	15.49
1954594	Mean Well	PM-15-24	+24V @ 0-0.63A	15.1	4	240	0.5	0.5	3.0 x 2.1 x 0.9	20.95	19.95	18.95

## Dual Adj. Regulated Power Supply Kit

- Adjustable positive/negative supplies ±5 to ±15VDC, 175mA-750mA per supply
- LED on indicator
- 120VAC input
- 48-piece kit
- PC board construction
- Difficulty level: intermediate

JAMECO ValuePro



Part No.	Cross Ref. No.	Size (L" x W" x H")	Wt. (lbs.)	1	10
20626	JE215	5.1 x 3.5 x 2.0	2.1	\$24.95	\$22.49

We also carry AT & ATX Computer Power Supplies. See page 170.

## 600-Watt Rackmount Power Supply

★ Web Code: MCJ

- AC Input active surge current limiting
- Built-in remote sense function
- Output: 48VDC @ 12.5A
- Input voltage: 90-132VAC/180-264VAC switch selectable
- Short-circuit, overload, overvoltage, overtemperature protection
- Forced air cooling by built-in DC fan
- Ripple & noise: 150mVp-p max.



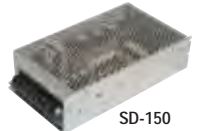
Part No.	Mfr. Part No.	Size (W" x D" x H")	1	5	25
673408	SE-600-48RM	19.5 x 5.0 x 3.5	\$249.95	\$229.95	\$214.95



## 15 to 500-Watt Enclosed Converters

Performance at Value Prices

- 2:1 wide input range
- 100% burn-in test
- Working temp.: -10°C to +60°C
- Protection: short-circuit, overload and overvoltage
- SD-15 Series
- Built-in EMI filter, low ripple noise
- One-year warranty
- SD-25/SD-50/SD-100/SD-150 Series
- Isolation voltage: 1500VDC
- Built-in EMI filter, low ripple noise
- One-year warranty
- SD-200/350 Series
- Isolation volt.: 1500VDC
- Cooling by free air convection
- Fixed switching freq @ 83kHz
- SD-200: One-year warranty; SD-350: Two-year warranty
- SD-500 Series
- Isolation voltage: 2000VAC
- DC input active surge current limiting
- Wide 4:1 ~ 2:1 SC input range
- Forced air cooling by built-in DC fan w/ fan speed control function
- Three-year warranty



SD-150

★ Web Code: UBC

Part No.	Mfr. Part No.	Input Range	Output		Size (L" x W" x H")	Pins	Line Reg. (±%)	Load Reg. ( ±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage @ Current	Power (W)						1	5	25	100
1953778	SD-15A-5 <sup>RoHS</sup>	9.2-18V	+5V @ 3.0A	15	3.1 x 2.0 x 1.1	5	0.5	0.5	100	\$19.95	\$17.49	\$15.49	\$14.49
1953786	SD-15B-5 <sup>RoHS</sup>	18-36V	+5V @ 3.0A	15	3.1 x 2.0 x 1.1	5	0.5	0.5	100	19.95	17.49	15.49	14.49
175662	SD-25A-5 <sup>RoHS</sup>	9-18V	+5V @ 5.0A	25	3.9 x 3.8 x 1.4	5	0.5	0.5	100	24.95	22.95	21.49	19.95
212549	SD-50A-5 <sup>RoHS</sup>	9-18V	+5V @ 10A	50	6.3 x 3.8 x 1.5	5	0.5	0.5	100	32.49	29.95	27.95	26.49
1953882	SD-200B-5 <sup>RoHS</sup>	19-36V	+5V @ 34A	170	8.5 x 4.5 x 2.0	9	0.5	1.0	100	99.95	94.95	89.95	84.95
1953891	SD-350B-5 <sup>RoHS</sup>	19-36V	+5V @ 57A	285	8.5 x 4.5 x 2.0	9	0.5	1.0	100	109.95	104.95	99.95	94.95
1953823	SD-15B-12 <sup>RoHS</sup>	18-36V	+12V @ 1.25A	15	3.1 x 2.0 x 1.1	5	0.3	0.3	120	19.95	17.49	15.49	14.49
1953840	SD-15C-12 <sup>RoHS</sup>	36-72V	+12V @ 1.25A	15	3.1 x 2.0 x 1.1	5	0.3	0.3	120	19.95	18.49	16.95	15.95
175805	SD-25A-12 <sup>RoHS</sup>	9-18V	+12V @ 2.1A	25.2	3.9 x 3.8 x 1.4	5	0.3	0.3	120	25.95	23.95	21.95	20.49
1537483	SD-50A-12 <sup>RoHS</sup>	9.2-18V	+12V @ 4.2A	50.1	6.3 x 3.8 x 1.5	5	0.3	0.3	120	32.49	29.95	27.95	26.49

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.



## 15 to 500-Watt Enclosed Converters (Continued)

Performance  
at Value Prices

★ Web Code: UBC

Part No.	Mfr. Part No.	Input Range	Output		Size (L" x W" x H")	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage @ Current	Power (W)						1	5	25	100
212531	SD-50B-12	19-36V	+12V @ 4.2A	50.4	6.3 x 3.8 x 1.5	5	0.3	0.3	120	\$32.49	\$29.95	\$27.95	\$26.49
212506	SD-50C-12	36-72V	+12V @ 4.2A	50.4	6.3 x 3.8 x 1.5	5	0.3	0.3	120	32.49	29.95	27.95	26.49
212469	SD-100C-12	36-72V	+12V @ 8.5A	102	7.8 x 3.9 x 1.5	7	0.3	0.3	120	41.95	38.95	36.95	34.95
217270	SD-150B-12	19-36V	+12V @ 12.5A	150	7.8 x 4.3 x 2.0	7	0.5	0.5	120	54.95	51.95	48.95	46.95
1953903	SD-200B-12	19-36V	+12V @ 16.7A	200.4	8.5 x 4.5 x 2.0	9	0.5	1.0	100	99.95	94.95	89.95	84.95
1953920	SD-200C-12	36-72V	+12V @ 16.7A	200.4	8.5 x 4.5 x 2.0	9	0.5	1.0	120	99.95	94.95	89.95	84.95
1953760	SD-200D-12	72-144V	+12V @ 16.7A	200.4	8.5 x 4.5 x 2.0	9	0.5	1.0	120	99.95	94.95	89.95	84.95
1953962	SD-350B-12	19-36V	+12V @ 27.5A	330	8.5 x 4.5 x 2.0	9	0.3	1.0	120	109.95	104.95	99.95	94.95
1953997	SD-350C-12	36-72V	+12V @ 27.5A	330	8.5 x 4.5 x 2.0	9	0.3	1.0	120	109.95	104.95	99.95	94.95
1954033	SD-500L-12	19-72V	+12V @ 40A	480	8.5 x 4.5 x 2.0	7	0.5	0.5	150	174.95	164.95	154.95	144.95
1954050	SD-500H-12	72-144V	+12V @ 40A	480	8.5 x 4.5 x 2.0	7	0.5	0.5	150	174.95	164.95	154.95	144.95
175813	SD-25A-24	9-18V	+24V @ 1.1A	26.4	3.9 x 3.8 x 1.4	5	0.2	0.2	150	25.95	23.95	21.95	20.49
2107186	SD-25C-24	36-72V	+24V @ 1.1A	26.4	3.9 x 3.8 x 1.4	5	0.2	0.2	150	25.95	23.95	21.95	20.49
2107266	SD-50A-24	9.2-18V	+24V @ 2.1A	50.4	6.3 x 3.8 x 1.5	5	0.2	0.2	150	32.49	29.95	27.95	26.49
212514	SD-50B-24	19-36V	+24V @ 2.1A	50.4	6.3 x 3.8 x 1.5	5	0.2	0.2	150	32.49	29.95	27.95	26.49
1953954	SD-200B-24	19-36V	+24V @ 8.4A	201.6	8.5 x 4.5 x 2.0	9	0.5	1.0	150	99.95	94.95	89.95	84.95
1953743	SD-200C-24	36-72V	+24V @ 8.4A	201.6	8.5 x 4.5 x 2.0	9	0.5	1.0	150	109.95	99.95	94.95	89.95
1953971	SD-350B-24	19-36V	+24V @ 14.6A	350.4	8.5 x 4.5 x 2.0	9	0.2	1.0	150	109.95	104.95	99.95	94.95
1954009	SD-350C-24	36-72V	+24V @ 14.6A	350.4	8.5 x 4.5 x 2.0	9	0.2	1.0	150	109.95	104.95	99.95	94.95
1954025	SD-500L-24	19-72V	+24V @ 21A	504	8.5 x 4.5 x 2.0	7	0.5	0.5	150	174.95	164.95	154.95	144.95
1953911	SD-200B-48	19-36V	+48V @ 4.2A	201.6	8.5 x 4.5 x 2.0	9	0.5	1.0	150	99.95	94.95	89.95	84.95
1953946	SD-200D-48	72-144V	+48V @ 4.2A	201.6	8.5 x 4.5 x 2.0	9	0.5	1.0	120	99.95	94.95	89.95	84.95
1954017	SD-350C-48	36-72V	+48V @ 7.3A	350.4	8.5 x 4.5 x 2.0	9	0.2	1.0	150	109.95	104.95	99.95	94.95
1953989	SD-350B-48	19-36V	+48V @ 7.3A	350.4	8.5 x 4.5 x 2.0	9	0.3	1.0	120	109.95	104.95	99.95	94.95



## Pure-Sine-Wave DC/AC Inverters

★ Additional Inverters available Online — Enter Web Code XEL

- Output waveform: sine wave
- Output connector: 3-prong AC receptacle
- Low battery alarm, low battery shutdown, overtemperature, overload, short-circuit, reverse polarity protection
- Output wave form THD: < 3%
- Thermostatically controlled cooling fan
- Two-year warranty
- Operating temp.: 0 ~ 40°C
- Output voltage: 120VAC (±3%) @ 60Hz
- Working temp.: 0 ~ 60°C
- Output voltage: 110VAC @ 60Hz

**SAMLEX:** • Operating temp.: 0 ~ 40°C

**Mean Well:** • Working temp.: 0 ~ 60°C



PST-30S



TS-1000

Part No.	Manufacturer	Mfr. Part No.	Output Power (W)	Efficiency (%)	Input Voltage Range (VDC)	Input Connector	Size (L" x W" x H")	Wt. (lbs.)	Pricing	
									1	5
672624	Samlex	PST-30S-12A	300	85	10.5 – 16.5	Screwdown terminals	8.4 x 5.8 x 2.6	3.3	\$149.95	\$134.95
1952425	Mean Well	TS-1000-112F	1000	88	10.5 – 15.0	Screwdown terminals	15.5 x 7.2 x 2.8	9.5	399.95	369.95
1943545	Mean Well	TS-1500-112A	1500	87	10.5 – 15.0	Screwdown terminals	16.5 x 8.7 x 3.5	7.5	424.95	389.95

\* With built-in GFCI



## Encapsulated DC-to-DC Converters

★ Web Code: NAX

**SCW03, SCW05, SCW08, SDM30, SKE10, SKA15 & SKE15, SLW05 Series** • 1000VDC I/O isolation • Shield metal case • Cooling by free air convection • Short-circuit/overload protection • 2:1 wide input range • One-year warranty

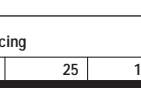
**FEC15 Series** • 2:1 & 4:1 wide input voltage range (depending on model) • Fixed switching frequency • Standard DIP package (24-pin) • Short-circuit/overload protection • 1600VDC isolation • Two-year warranty

**SBT01 Series** • 1000VDC I/O isolation • Internal SMD technology • Cooling by free air convection • Short-circuit/overload protection

**SCW12 & DCW12 Series** • 2:1 wide input voltage range • 1500VDC I/O isolation • Built-in EMI filter • Short-circuit/overload protection • Built-in remote on/off control • Five sided shielded metal case • Two-year warranty

**DCW03, DCW05, DCW08, DKE10, DKA15 & DKE15 Series** • 1000VDC I/O isolation • Short-circuit/overload protection • Shield metal case • 2:1 wide input range • Cooling by free air convection • One-year warranty

**DKA30, TKA30 & TKB20 Series** • 1000VDC I/O isolation • Cooling by free air convection • 2:1 wide input range • Short-circuit/overload protection • Remote on/off control • Six sided shielded metal case • One-year warranty



Part No.	Manufacturer	Mfr. Part No.	Input Range	Output		Size (L" x W" x H")	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing				
				Voltage @ Current	Pwr (W)						1	5	25	100	
Single Output															
220354	Mean Well	SLW05A-033	9-18V	+3.3V @ 1.5A	5	2.0x1.0x0.44	5	0.2	0.5	100	\$16.95	\$15.49	\$13.95	\$12.95	
1944071	Power Mate	FEC15-24S3P3	18-36V	+3.3V @ 4A	15	2.0x1.0x0.4	6	0.5	0.5	50	32.95	29.95	26.95	24.95	
2106790	Mean Well	SBT01M-05	10.8-13.2V	+5V @ 0.2A	1	0.5x0.3x0.2	8	8.0	1.2	100	4.95	4.49	3.95	3.69	

Encapsulated Converters continued on next page

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Encapsulated DC-to-DC Converters

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

Jameco carries the full line of Mean Well Power products. For additional products visit [www.Jameco.com/meanwellproducts](http://www.Jameco.com/meanwellproducts)



## Encapsulated DC-to-DC Converters (Continued)

Photos on previous page

★ Web Code: NAX

Part No.	Manufacturer	Mfr. Part No.	Input Range	Output		Size (L" x W" x H")	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing				
				Voltage @ Current	Pwr (W)						1	5	25	100	
Single Output (Continued)															
213269	Mean Well	SCW03A-05	9-18V	+5V @ 0.6A	3	1.25x0.8x0.48	10	1.0	0.5	100	\$13.95	\$12.95	\$11.49	\$10.49	
1953292	Mean Well	SCW05A-05	9-18V	+5V @ 1A	5	1.25x0.8x0.48	8	0.5	0.5	50	14.95	13.49	11.95	10.95	
216929	Mean Well	SLW05A-05	9-18V	+5V @ 1A	5	2.0x1.0x0.44	5	1.0	0.2	100	22.95	19.95	17.95	15.95	
216937	Mean Well	SLW05B-05	18-36V	+5V @ 1A	5	2.0x1.0x0.44	5	1.0	0.2	100	22.95	19.95	17.95	15.95	
1953313	Mean Well	SCW05B-05	18-36V	+5V @ 1A	5	1.25x0.8x0.48	8	0.5	0.5	50	14.95	13.49	11.95	10.95	
213234	Mean Well	SLW05C-05	36-72V	+5V @ 1A	5	2.0x1.0x0.44	5	1.0	0.2	100	22.95	19.95	17.95	15.95	
216962	Mean Well	SKE10A-05	9-18V	+5V @ 2A	10	2.0x1.0x0.44	5	0.3	1.0	50	28.95	25.95	22.95	19.95	
216953	Mean Well	SKE10B-05	18-36V	+5V @ 2A	10	2.0x1.0x0.44	5	0.3	0.5	50	28.95	25.95	22.95	19.95	
216945	Mean Well	SKE10C-05	36-72V	+5V @ 2A	10	2.0x1.0x0.44	5	0.3	1.0	50	24.95	21.95	19.95	17.95	
1953428	Mean Well	SCW12A-05	9-18V	+5V @ 2.4A	12	1.25x0.8x0.48	9	0.5	0.5	50	24.95	21.95	19.95	17.95	
155716	Mean Well	SKE15A-05	9-18V	+5V @ 3A	15	2.0x2.0x0.43	5	0.3	0.5	50	24.95	21.95	19.95	17.95	
213277	Mean Well	SKE15B-05	18-36V	+5V @ 3A	15	2.0x2.0x0.43	5	0.3	0.5	50	24.95	21.95	19.95	17.95	
216911	Mean Well	SLW05B-12	18-36V	+12V @ 0.417A	5	2.0x1.0x0.44	5	1.0	0.2	100	16.95	14.95	13.49	12.49	
1953495	Mean Well	SCW08A-12	9-18V	+12V @ 0.67A	8	1.25x0.8x0.48	8	0.5	0.5	60	17.95	16.95	15.95	14.95	
1953516	Mean Well	SCW08B-12	18-36V	+12V @ 0.67A	8	1.25x0.8x0.48	8	0.5	0.5	60	17.95	16.95	15.95	14.95	
217024	Mean Well	SKE10B-12	18-36V	+12V @ 0.84A	10	2.0x1.0x0.44	5	0.3	0.5	60	28.95	25.95	22.95	19.95	
1953479	Mean Well	SCW12C-12	36-72V	+12V @ 1A	12	1.25x0.8x0.48	9	0.5	0.5	60	24.95	21.95	19.95	17.95	
155708	Mean Well	SKE15A-12	9-18V	+12V @ 1.25A	15	2.0x2.0x0.43	5	0.3	0.5	60	24.95	21.95	19.95	17.95	
1953161	Mean Well	SKA15A-12	9-18V	+12V @ 1.25A	15	2.0x1.0x0.44	5	0.2	0.5	60	26.95	23.95	21.95	19.95	
213285	Mean Well	SKE15B-12	18-36V	+12V @ 1.25A	15	2.0x2.0x0.43	5	0.3	0.5	60	24.95	21.95	19.95	17.95	
1953170	Mean Well	SKA15B-12	18-36V	+12V @ 1.25A	15	2.0x1.0x0.44	5	0.2	0.5	60	26.95	23.95	21.95	19.95	
1953196	Mean Well	SKA15C-12	36-72V	+12V @ 1.25A	15	2.0x1.0x0.44	5	0.2	0.5	60	26.95	23.95	21.95	19.95	
217242	Mean Well	SDM30-24S12	18-36V	+12V @ 2.5A	30	2.0x2.0x0.63	8	1.0	1.0	100	32.95	29.95	27.95	25.95	
216882	Mean Well	SLW05A-15	9-18V	+15V @ 0.333A	5	2.0x1.0x0.44	5	1.0	0.2	100	16.95	14.95	13.49	12.49	
216980	Mean Well	SKE10A-15	9-18V	+15V @ 0.666A	10	2.0x1.0x0.44	5	0.3	1.0	60	24.95	21.95	19.95	17.95	
155695	Mean Well	SKE15A-24	9-18V	+24V @ 0.625A	15	2.0x2.0x0.43	5	0.3	0.5	80	24.95	21.95	19.95	17.95	
Dual Output															
155919	Mean Well	DCW03A-05	9-18V	±5V @ 0.3A	3	1.25x0.8x0.48	10	1.0	0.5	100	\$15.95	\$13.95	\$12.49	\$10.95	
217032	Mean Well	DKE10A-05	9-18V	±5V @ 1A	10	2.0x1.0x0.44	5	0.3	0.5	50	26.95	23.95	21.95	19.95	
1954421	Mean Well	DCW12A-05	9-18V	±5V @ 1.2A	12	1.25x0.8x0.48	9	0.5	0.5	50	26.95	23.95	21.95	19.95	
1954076	Mean Well	DCW12C-05	36-72V	±5V @ 1.2A	12	1.25x0.8x0.48	9	0.5	0.5	50	26.95	23.95	21.95	19.95	
1953081	Mean Well	DKA15B-05	18-36V	+5V @ 3A; -5V @ 1.5A	15	2.0x1.0x0.44	5	0.2	0.5	50	28.95	25.95	22.95	20.95	
1954121	Mean Well	DKA30C-05	36-72V	±5V @ 2.5A	25	2.0x2.0x0.82	8	0.5	0.5	100	32.95	29.95	27.95	25.95	
161702	Mean Well	DCW03A-12	9-18V	±12V @ 0.125A	3	1.25x0.8x0.48	10	1.0	0.5	100	15.95	13.95	12.49	10.95	
1953241	Mean Well	DCW05A-12	9-18V	±12V @ 0.23A	5.5	1.25x0.8x0.48	8	0.5	0.5	60	14.95	13.95	12.95	11.95	
1953356	Mean Well	DCW08A-12	9-18V	±12V @ 0.335A	8	1.25x0.8x0.48	8	0.5	0.5	60	19.95	17.95	15.95	14.49	
1953399	Mean Well	DCW08C-12	36-72V	±12V @ 0.335A	8	1.25x0.8x0.48	8	0.5	0.5	60	19.95	17.95	15.95	14.49	
217092	Mean Well	DKE10A-12	9-18V	±12V @ 0.42A	10	2.0x1.0x0.44	5	0.3	0.5	60	26.95	23.95	21.95	19.95	
1953022	Mean Well	DCW12B-12	18-36V	±12V @ 0.5A	12	1.25x0.8x0.48	9	0.5	0.5	60	26.95	23.95	21.95	19.95	
161729	Mean Well	DKE15A-12	9-18V	±12V @ 0.625A	15	2.0x2.0x0.43	5	0.3	0.5	60	26.95	23.95	21.95	19.95	
1953090	Mean Well	DKA15B-12	18-36V	±12V @ 0.625A	15	2.0x1.0x0.44	5	0.2	0.5	60	28.95	25.95	22.95	20.95	
1953102	Mean Well	DKA15C-12	36-72V	±12V @ 0.625A	15	2.0x1.0x0.44	5	0.2	0.5	60	28.95	25.95	22.95	20.95	
1953364	Mean Well	DCW08A-15	9-18V	±15V @ 0.267A	8	1.25x0.8x0.48	8	0.5	0.5	60	19.95	17.95	15.95	14.49	
1953381	Mean Well	DCW08B-15	18-36V	±15V @ 0.267A	8	1.25x0.8x0.48	8	0.5	0.5	60	19.95	17.95	15.95	14.49	
217112	Mean Well	DKE10A-15	9-18V	±15V @ 0.333A	10	2.0x1.0x0.44	5	0.3	0.5	60	26.95	23.95	21.95	19.95	
217075	Mean Well	DKE10B-15	18-36V	±15V @ 0.333A	10	2.0x1.0x0.44	5	0.3	0.5	60	26.95	23.95	21.95	19.95	
1954130	Mean Well	DKA30A-15	9-18V	±15V @ 1A	30	2.0x2.0x0.82	8	0.5	0.5	100	32.95	29.95	27.95	25.95	
213293	Mean Well	DKE15A-24	9-18V	±24V @ 0.313A	15	2.0x2.0x0.43	5	0.3	0.5	80	26.95	23.95	21.95	19.95	
Triple Output															
217648	Mean Well	TKB20C-B	36-72V	+5V @ 2.5A; ±12V @ 0.31A	20	1.2x2.0x0.82	8	0.2	0.2	100	\$24.95	\$22.95	\$20.95	\$18.95	
1953217	Mean Well	TKA30B-B	18-36V	+5V @ 0.31A; ±12V @ 0.31A	25	2.0x2.0x0.82	8	5.0	5.0	100	37.95	33.95	31.95	29.95	



## Unregulated Encapsulated Converters

★ Web Code: SBH

- Input range: 4.5-5.5V
- Ripple & noise: 100mV p-p
- Input filter: capacitor type
- Line & load regulation: ±1.0%
- No external components needed

- 1000VDC isolation
- 100% burn-in test
- Protection: short-circuit
- One-year warranty
- Working temp.: -15°C to +60°C

216831



Part No.	Mfr. Part No.	Output		Size (L"xW"xH")	Pins	Pricing		
		Voltage@Current	Power			1	10	50
213226	SRS-0505	+5V @ 100mA	0.5W	1.88 x .39 x .33	8	\$9.95	\$8.95	\$7.95
216831	SPR01L-12	+12V @ 84mA	1W	1.77 x .28 x .40	4	9.95	8.95	7.95

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.



## Evergreen, Energizer®, Duracell® & Lexcel® Alkaline Batteries



\*Web Code: NBF

**Blowout  
Prices**

Part No.	Size	1	10
2120153	9-volt Winco	\$1.79	\$1.59
198731	9-volt Energizer®	2.05	1.85
198791	9-volt Duracell®	2.95	2.65
215845	1.5V D-cell Energizer®	1.15	1.05

Part No.	Size	Min	1	12
2112461	9V, Super Alkaline Vinnic††	2	\$1.05	\$.95
2112452	1.5V, D-cell Evergreen††	2	.95	.89
2112428	1.5V, C-cell Evergreen††	2	.95	.85
2112444	1.5V, AA Evergreen†	4	.25	.20
2112436	1.5V, AAA Lexcel®†	4	.25	.20

Part No.	Size	Min	1	40	100
198707	AA Energizer®†	4	\$.79	\$.69	\$.65
198715	AAA Energizer®†	4	.69	.59	.55
115432	AAA Duracell®††	2	.69	.59	.49

† Sold in multiples of 4 †† Sold in multiples of 2

## Silver Oxide and Zinc Chloride Batteries

\*Web Code: XAB

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.

Part No.	Cross Ref.	Description	1	10
140783	357	Silver oxide, button, 175mAh	\$1.49	\$1.39
2119831	S736S	Silver oxide, button, 34mAh	1.19	1.09
2119849	S1131S	Silver oxide, button, 73mAh	1.29	1.19
2119857	S1142S	Silver oxide, button, 116mAh	1.49	1.29
2119890	ER6MSG	Zinc chloride, AA	.59	.55
2119822	ER03MSG	Zinc chloride, AAA	.69	.59
151095	GF6F22	Zinc chloride, 9V	1.29	1.19



140783



151095

## Automatic Lead Acid Battery Chargers

- Multi-stage charging circuit prevents batteries from overcharging
- High frequency MOSFET switching design
- Input voltage: 98 to 132VAC @ 50/60Hz

673416

Part No.	Mfr. Part No.	Output Volt.	Size (L"xW"xH")	Wt. (lbs.)	1	10
673416	SEC-1215A	13.5VDC @ 15A	8.5 x 8.4 x 3.3	4.8	\$147.95	\$134.95
673432	SEC-2415A	27.0VDC @ 15A	10.8 x 8.4 x 3.3	6.4	239.95	215.95



## Universal NiCd/NiMH Charger

- Fast charging in the specified period with an automatic switch for trickle charge

Part No.	Mfr. Part No.	Compatible Battery	1	10	25
231132	SEC-1215A	AAA, AA, C, D, 9V	\$21.95	\$19.95	\$18.95



Save 10% or more on most batteries!

## Lithium, NiCd & NiMH Batteries

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.

### Lithium

Part No.	Product No.	Manufacturer	Fig.	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
673627	NBL414/F9D	Panasonic	1	Coin cell	2.0	1.0	4.8mm body w/ tabs (2)	0.18"Dia. x 0.06"Thick	\$4.49	\$4.45	\$3.39
673601	NBL621/F9DE	Panasonic	1	Coin cell	2.0	4.0	Vertical PC mount	0.27"Dia. x 0.10"Thick	.85	.75	.65
2123784	CR1220	Evergreen	2	Coin cell	3	40	Clock/memory/watch	0.49"Dia. x 0.77"Thick	.85	.75	.65
2119865	CR1632	Evergreen	2	Coin cell	3	120	Clock/memory/watch	0.63"Dia. x 0.13"Thick	1.09	.95	.85
11789	CR2325	ReliaPro	2	Coin cell	3	165	Clock/memory/watch	0.91"Dia. x 0.13"Thick	1.79	1.59	1.45
14162	CR2032	Various	2	Coin cell	3	180	Clock/memory/watch	0.79"Dia. x 0.13"Thick	1.25	1.09	.99
1585451	DL2032	Duracell	2	Coin cell	3	180	Clock/memory/watch	0.79"Dia. x 0.13"Thick	1.49	1.35	1.19
2119216	CR2450	Evergreen	2	Coin cell	3	550	Clock/memory/watch	0.95"Dia. x 0.20"Thick	1.49	1.35	1.19
2113691	BR2330	Dantona	2	Coin cell	3	255	Clock/memory/watch	0.90"Dia. x 0.12"Thick	2.49	2.19	1.95
2119873	CR2	Evergreen	3	Cylinder	3	750	Consumer tip/digital camera	1.66"L x 0.61"Dia.	4.95	4.49	4.09
2119881	2CR5	Evergreen	4	Dual cyl.	6	1400	(2) term. on one end	1.76"L x 1.33"Dia.	7.95	7.29	6.95
126754	TL5101S	Tadiron	3	Sub-AA	3.6	950	Macintosh®	0.95"L x 0.56"Dia.	4.75	4.25	3.55
263898	ER14250	ReliaPro	3	Sub-AA	3.6	1000	With axial leads	1.00"L x 0.55"Dia.	4.75	4.25	3.85
240266	ER14250	ReliaPro	3	Sub-AA	3.6	1000	Consumer tip	1.00"L x 0.55"Dia.	4.25	3.95	3.55
673635	CA1/2AA	Various	5	1/2 AA	3	950	Barrel w/ leads (2)	1.0"L x 0.58"Dia.	2.49	2.29	1.95
33371	TL5101P	Tadiron	6	1/2 AA	3.6	950	Barrel w/ leads (clock/mem.)	0.93"L x 0.56"Dia.	6.25	5.65	4.95
33398	TL5104P	Tadiron	7	AA	3.6	2100	Barrel w/ leads (clock/mem.)	1.88"L x 0.56"Dia.	6.95	6.25	5.65
146114	TL5104/S	Tadiron	8	AA	3.6	2100	Barrel pressure (clock/mem.)	1.91"L x 0.56"Dia.	6.95	6.25	5.65
240258	CR123A	ReliaPro	9	A	3	1300	Photo/computer	1.36"L x 0.65"Dia.	2.75	2.49	2.25

### NiCd – Rechargeable

\*Web Code: GCF

Part No.	Product No.	Manufacturer	Fig.	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
261657	AA-700-CT	ReliaPro	10	AA	1.2	700	Consumer tip	1.90"L x 0.55"Dia.	\$1.69	\$1.49	\$1.35
244515	AA-1000-CT	ReliaPro	10	AA	1.2	1000	Consumer tip	1.90"L x 0.55"Dia.	2.75	2.49	2.25
244574	SC-1500	ReliaPro	11	Sub-C	1.2	1500	Flat top	1.70"L x 0.89"Dia.	2.95	2.59	2.39

### NiMH – Rechargeable

\*Web Code: GCF

Part No.	Product No.	Manufacturer	Fig.	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
231095	AAA-750NM	Dantona	12	AAA	1.2	600	Consumer tip	1.70"L x 0.40"Dia.	\$3.45	\$3.09	\$2.79
2127777	AA-2500CT	ReliaPro	13	AA	1.2	2500	Consumer tip	1.90"L x 0.55"Dia.	3.95	3.55	3.19
231087	AA-1800NM	Dantona	14	AA	1.2	1800	Consumer tip	1.90"L x 0.55"Dia.	3.95	3.55	3.19
244620	H2009VP	ReliaPro	15	9V	9	200	Snaps	1.94"L x 0.65"Dia.	9.75	8.75	7.95
231108	9V-8.4NM	Dantona	16	9V	9	150	Snaps	1.94"L x 0.61"Dia.	10.95	9.95	9.49
231124	D-900NM	Dantona	17	D	1.2	9000	Consumer tip	2.30"L x 1.30"Dia.	14.95	13.95	12.95
2129342	3H80BC	Evergreen	18	N/A	3.6	80	3-lead (pin), barrel	0.72"L x 0.61"Dia.	2.95	2.75	2.55



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6

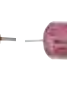


Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13

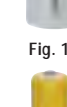


Fig. 14

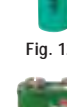


Fig. 15

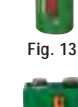


Fig. 16



Fig. 17



Fig. 18

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Batteries, Battery Holders, Snaps, Packs & Tester

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

**POWERGENIX**

## NiZn Rechargeable Batteries

The PowerGenix battery has up to 33% more energy density over standard rechargeable batteries. Typical rechargeable batteries only produce 1.2V, while these produce 1.6V! NiZn technology is perfectly suited for high-tech devices like MP3 players, digital cameras, toys and LED lights.

2115821: • Universal voltage for ease-of-use while traveling (100-240VAC, 50/60Hz)

• Includes 4 AA NiZn batteries • LED lights indicate charging status

2115830: • Made for high-drain application

• 30% more voltage than NiMH batteries

• 1.60V - equivalent to an Alkaline battery (~1560mAh)

Part No.	Description	1	10
2115856	NiZn quick charger, 1.5 hours	\$34.95	\$31.95
2115821	NiZn fast charger, 3-5 hours	24.95	22.95
2115830	NiZn AA battery 4 per pack	14.95	13.49



## Compact Battery Tester

Simply lift the swivel arm of this battery between the contacts and it will provide you a voltage measurement of your batteries. Tests AAA, AA, C, 9V and button cell batteries.



Part No.	Mfr. Part No.	1	10
239556	BATTEST	\$3.95	\$3.49

**\*Battery Chargers Online — Enter Web Code PBF**

## Battery Holders

Eliminate battery mounting problems in portable DC power applications and products. These holders are made from special materials that maintain retention properties longer than conventional holders. They can come with leads, tabs or snaps.

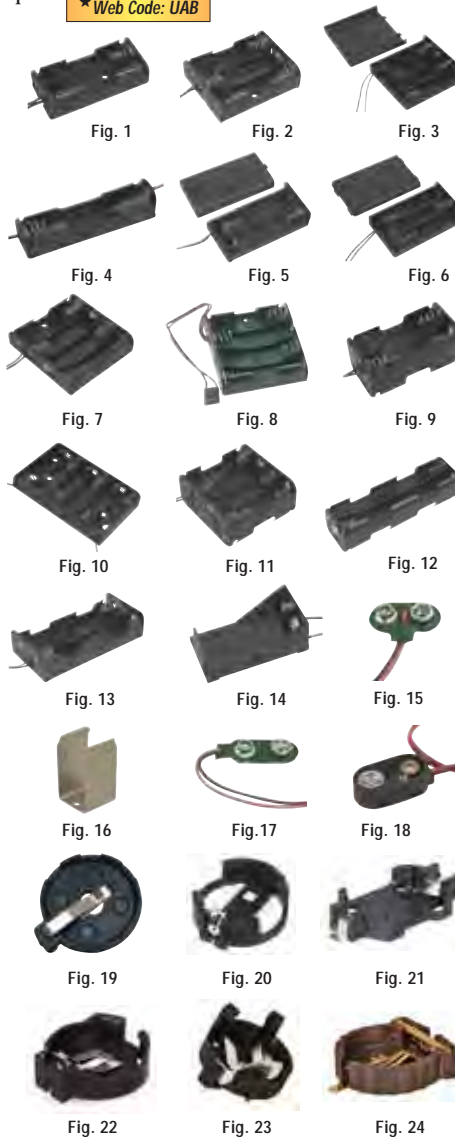
**NEW**  
MARKED IN PINK

**\*Web Code: UAB**

Part No.	Cross Ref. No.	*Mfr. Fig.	No. of Cells	Connector	Sides	Features	1	10	100	500
216283	BH-421-1A	JRP	1	2-AAA	Wires	Single	\$ .59	\$ .55	\$ .49	\$ .39
216292	SBH-421-AS	JRP	1	2-AAA	Wires	Single	.65	.59	.55	.49
216303	BH-431-1A	JRP	2	3-AAA	Wires	Single	.79	.69	.65	.59
216312	SBH-431-1AS	JRP	2	3-AAA	Wires	Single	.95	.85	.75	.69
216339	SBH-441-AS	JRP	3	4-AAA	Wires	Single	1.45	1.29	1.19	.89
216072	BH-311-2A	JRP	4	1-AA	Wires	Single	1.05	.95	.85	.75
2128075	BH-321-1B	JRP	1	2-AA	Snaps	Single	.79	.69	.59	.49
216081	BH-321-2A	JRP	1	2-AA	Wires	Single	.75	.69	.59	.55
216099	BH-321-4A	JRP	1	2-AA	Wires	Single	.75	.69	.59	.55
216102	SBH-321-2A	JRP	5	2-AA	Wires	Single	.75	.69	.59	.55
216120	SBH-321-1AS	JRP	5	2-AA	Wires	Single	.89	.79	.72	.65
216136	BH-331-A	JRP	2	3-AA	Wires	Single	.85	.77	.69	.62
216144	SBH-331-AS	JRP	6	3-AA	Wires	Single	.79	.69	.65	.59
216152	BH-341-2A	JRP	7	4-AA	Wires	Single	1.15	1.05	.95	.85
105858	BH-PC	JRP	8	4-AA	Wires	Single	.95	.85	.79	.65
2128083	BH-341-3B	JRP	7	4-AA	Snaps	Single	.89	.79	.69	.59
216179	BH-343-1A	JRP	9	4-AA	Wires	Dual	.79	.69	.65	.59
216187	SBH-341-1AS	JRP	3	4-AA	Wires	Single	1.05	.95	.85	.75
2095453	SBH-341-1A	JRP	3	4-AA	Wires	Single	.99	.85	.75	.65
216223	BH-364-A	JRP	10	6-AA	Wires	Single	.95	.85	.79	.65
216240	BH-383-A	JRP	11	8-AA	Wires	Dual	1.09	.99	.89	.69
216267	BH-383-B	JRP	11	8-AA	Snaps	Dual	1.19	1.09	.99	.79
216259	BH-382-B	JRP	12	8-AA	Snaps	Dual	1.35	1.19	1.09	.79
216347	BH-211-A	JRP	4	1-C	Wires	Single	.55	.49	.45	.39
216363	BH-242-1A	JRP	13	4-C	Wires	Single	1.09	.99	.89	.69
216371	BH-111-1A	JRP	4	1-D	Wires	Single	.69	.65	.59	.49
216390	BH-121-1A	JRP	1	2-D	Wires	Single	1.19	1.09	.95	.79
216401	BH-142-A	JRP	13	4-D	Wires	Single	1.35	1.19	1.09	.89
2128121	BH-142-1B	JRP	13	4-D	Snaps	Single	1.35	1.19	1.09	.99
2128067	SBH-9VAS	JRP	5	1-9V	Wires	Single	1.39	1.25	1.09	.95
216427	BH-9V-A	JRP	14	1-9V	Wires	Single	.75	.69	.59	.55
11280	A104-R	JRP	15	1-9V	Wires	Single	.39	.35	.29	.25
105794	GBH-1009-R	JRP	16	1-9V	Wires	Single	.35	.32	.29	.25
1949488	BAT-SNAP-4	JRP	17	1-9V	Wires	Single	.29	.26	.23	.19
109154	BC6-R	JRP	17	1-9V	Wires	Single	.29	.26	.23	.19
216452	SBS-IR-1-R	JRP	18	1-9V	Wires	Single	.35	.32	.29	.25
101470	A102-R	JRP	19	1-9V	Wires	Single	.35	.32	.29	.25
236996	103	KEY	19	1-CR2032	PC mount	Coin cell	1.65	1.49	1.35	1.19
355434	17002-00603	JRP	20	1-CR2032	PC mount	Coin cell	.79	.69	.65	.59
38543	2S2325	JRP	19	1-CR2354 or 2- CR2325	PC mount	Coin cell	.79	.69	.65	.59
2123741	BH-27-5	ADM	21	1-CR2032 or 1-DL2032	SMT	Coin cell	.79	.69	.59	.49
2123750	BH-32-1	ADM	22	1-CR2450 or 1-DL2450	PC mount	Coin cell	.89	.79	.69	.59
2123768	BH-41B-1	ADM	23	1-357/SR44	PC mount	Coin cell	.75	.69	.59	.49
2123776	BH-44-5	ADM	24	1-CR1220	SMT	Coin cell	.95	.85	.75	.65

\$ Battery holder used in many personal computers

\* Wires are 6" unless noted differently



## Rechargeable Battery Pack

**\*Web Code: LAA**

Part No.	Volt	Cell	Size (L x Dia.)	Type	mAh	Connection	1	10	25
298652	4.8	SC Single	1.72" x 0.9" (43.7mm x 22.9mm)	NiCd	2200	Solder tab	\$15.95	\$14.49	\$12.95

\* ADM = Adam Tech | JRP = Jameco ReliaPro | KEY = Keystone

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

## Lead Acid Batteries

- Use with UPS Backup Systems, Security Fire Alarms, Wheel Chairs, Scooters
- Sealed • UL approved • Rechargeable
- One-year manufacturer warranty



264014



264031



318924



264057



264065



264073



★ Web Code: LBR

Part No.	Mfr. Part No.	Nominal Voltage	Amp-Hrs.	Cross Reference				Terminal Size	Size (L" x W" x H")	Wt. (lbs.)	Pricing	
				Panasonic	YUASA	Eagle Picher	Tempest				1	10
138692	K9120-REVC	6	1.3	Honeywell	—	—	—	Quick connect 0.187"	2.1 x 1.0 x 3.8	0.7	\$3.49	\$2.95
264014	TY-6-4.5	6	4.5	LCR6VP	NP4-6	CF16V4	TR-4-6	Quick connect 0.187"	2.8 x 1.9 x 4.0	1.9	11.95	10.95
317024	LA-TY-6-12	6	12.0	—	—	—	—	Quick connect 0.187"	5.9 x 1.9 x 3.7	4.6	19.95	17.95
318844	LA-TY-12-1.2	12	1.2	—	—	—	—	Quick connect 0.187"	3.8 x 1.7 x 2.1	1.3	14.95	13.45
264031	TY-12-2.3	12	2.3	LCR12V2.2P	NP2.3-12	CF12V1.5	TR2.3-12	Quick connect 0.187"	7.0 x 1.3 x 2.4	2.1	19.95	17.95
318924	LA-TY-12-3.4	12	3.4	—	—	—	—	Quick connect 0.187"	5.3 x 2.7 x 2.4	3.1	21.95	19.95
264049	TY-12-5	12	5.0	—	—	—	—	Quick connect 0.187"	3.5 x 2.7 x 3.9	3.6	22.95	20.65
264057	TY-12-7.5	12	7.5	LCR12V7.2BP	NP712	CFM12V65	TR7.5-12	Quick connect 0.187"	5.9 x 2.6 x 3.7	5.6	24.95	22.49
264065	TY-12-12	12	12.0	PS12120	—	CFM12V12	TR12-12	Quick connect 0.187"	5.9 x 3.9 x 3.9	9.0	39.95	35.95
264073	TY-12-18	12	18.0	LCR12V17BP	NPG18-12	CF12V18	TR18-12	Quick connect 0.472"	7.1 x 3.0 x 6.6	13.3	49.95	44.95
318852	LA-TY-12-35	12	35.0	—	—	—	—	Nut & bolt	7.6 x 5.1 x 6.3	27.6	89.95	84.95



## 360 & 1000-Watt Single Output Lead Acid Battery Chargers

★ Web Code: ABC

- Input: 115VAC/230VAC @ 47-64Hz (switch-selectable)
- 1952417/1954332/1954341/1954359: with built-in passive PFC function
- Overload, short-circuit, reverse polarity, over voltage, over temperature protection
- 1952417/1954308/1954316/1954324: Fan on/off control (depending on charging current) • Charger for lead acid batteries
- 1954316/1954324: Size: 10.0"L x 5.3"W x 1.9"H, Weight: 3.3 lbs.
- 1952417/1954308: Size: 9.3"L x 5.3"W x 1.9"H, Weight: 3.3 lbs.
- 1954332/1954341/1954359: Size: 11.8"L x 7.2"W x 2.8"H, Weight: 7.7 lbs.



1952417

Part No.	Mfr. Part No.	Watts	Boost Charge Voltage	Float Charge Voltage	Recommended Battery Capacity (AMP Hours)	Pricing	
						1	5
1952417	PB-360P-12	360	14.4	13.6	80-200	\$94.95	\$84.95
1954308	PB-360N-12	360	14.4	13.6	80-200	94.95	84.95
1954316	PB-360N-24	360	28.8	27.2	40-125	94.95	84.95
1954324	PB-360N-48	360	57.6	54.4	20-65	94.95	84.95
1954332	PB-1000-12	1000	14.4	13.8	200-600	349.95	314.95
1954341	PB-1000-24	1000	28.8	27.6	120-350	349.95	314.95
1954359	PB-1000-48	1000	57.6	55.2	60-175	349.95	314.95

## Panel Meters

### 0.6" High 3½ & 4½-Digit LCD Digital Panel Meters



108388

175951

146835

123140

- Input ranges: 200mV, 20V, 200V, 500V • Input impedance: >100MΩ
- Accuracy: ±0.5% • Size: 2.7"W x 1.7"H
- Supply voltage: 8-12VDC (recommend 9V battery P/N 151095, pg 137)
- Automatic polarity indication

Part No.	Cross Ref. No.	Description	1	10	25
108388	PM-428	3½-digit (no bezel, snap mount) .....	\$10.95	\$9.95	\$8.95
175951	PM-128	3½-digit (bezel, screw mount) .....	12.95	11.65	10.49
146835	PM-188BL	3½-digit (with backlight display) .....	14.95	13.45	11.95
123140	PM-328	4½-digit (bezel, screw mount) .....	29.95	26.95	24.25

Cannot use in common ground applications

### Multi-Function Graphics Displays

#### 3½-digit, bargraph & analog style meter

Customize your 2.4" or 2.8" PanelPilot graphic displays in seconds with the simple click of a mouse. Using Lascar's revolutionary PanelPilot software, select from a wide range of customizable meter styles (digital and analog) including touch screen applications as well as more traditional volt meter apps. Choose colors, text labels, scaling and even display your own logo on power-up. Visit [www.panelpilot.com](http://www.panelpilot.com) for even more downloadable apps, including touchscreen.

- Operating voltage: 4-30VDC • Adjustable 0 to 40VDC input
- Screw terminal connections • Programmable via USB interface
- Free Windows-based configuration software

Part No.	Mfr. Part No.	Description	1	5
2115354	SGD-24-M	2.4", 3½-digit .....	\$94.95	\$86.95
2125149	SGD-28-M	2.8", 3½-digit .....	109.95	99.95



### Digital Panel Meters

- Supply voltage: 110VAC @ 50/60Hz
- 2129262 (AC)/2129271 (DC): Voltmeters
- Power consumption: 3W maximum
- Input impedance: 1MΩ (±5%)
- Sampling rate: 3 samples/second
- Accuracy AC – 0.5 class; DC – 0.1 class (±2 digits)
- 3/4-digit, 7-segment LED



2129262



2129289

- 2129289: Power Factor Meter
- Accuracy: ±0.5% (±1 digit) • 4-digit, 7 segment display

Part No.	Mfr. Part No.	Display Range	Input Range	Resolution	1	5
2129262	MV15-110V	0-516VAC	50-480VAC	1VAC .....	\$35.95	\$32.95
2129271	MV15-DC-200V-110V	0-199.9V	0-200VDC	0.1VDC .....	35.95	32.95








Part No.	Mfr. Part No.	Input Current	Resolution	1	5	25
2129289	MP14-110V	250mA - 6A (AC)	0.001 .....	\$52.95	\$47.95	\$42.95

★ Digital Panel Meters Online — Enter Web Code WBU



### Analog Panel Meters

- Includes mounting hardware • 316507: Includes current shunt

Part No.	Mfr. P/N	Range	Size (W"xH"xD")	1	10	★ Web Code: YBQ
316603	AVM6015	0 - 15VDC	2.4 x 1.8 x 1.3 ....	\$9.95	\$8.95	
316671	AVM7015	0 - 15VDC	2.8 x 2.4 x 1.4 .....	9.95	8.95	
316638	AVM6030	0 - 30VDC	2.4 x 1.8 x 1.3 .....	9.95	8.95	
316654	AVM7030	0 - 30VDC	2.8 x 2.4 x 1.4 .....	9.95	8.95	
316718	AVM60150	0 - 150VAC	2.4 x 1.8 x 1.3 .....	9.95	8.95	
316785	AVM60300	0 - 300VAC	2.4 x 1.8 x 1.3 .....	9.95	8.95	
315301	AIM60005	0 - 50µA	2.4 x 1.8 x 1.3 .....	9.95	8.95	
316523	AIM6050	0 - 50mA	2.4 x 1.8 x 1.3 .....	9.95	8.95	
316486	AIM60100	0 - 100mA	2.4 x 1.8 x 1.3 .....	9.95	8.95	
316558	AIM60500	0 - 500mA	2.4 x 1.8 x 1.3 .....	9.95	8.95	
316566	AIM60500	0 - 5A	2.4 x 1.8 x 1.3 .....	9.95	8.95	
316582	AIM705000	0 - 5A	2.8 x 2.4 x 1.4 .....	9.95	8.95	
316494	AIM6010A	0 - 10A	2.4 x 1.8 x 1.3 .....	9.95	8.95	
316507	AIM6030A	0 - 30A	2.4 x 1.8 x 1.3 .....	12.95	11.65	

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Environmental Meters & Data Loggers

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE



## Drill Mountable Panel Meters

★ Web Code: WBU

- Mount by simply drilling a single hole (7/32") and insert the threaded section of the panel meter
- Module size: 1.71"L x 0.84"W

Part No.	Mfr. Part No.	Description	Digit Ht.	Supply Volt.	Measurement Range	1	5	25
2113201	EMV-1125	4-digit, LCD volt/current meter	.50"	7.5-15VDC	200mV-20V/200µA-200mA...	\$32.95	\$29.95	\$26.95
2095040	EMV 1200	3-digit, signal pwrd, LCD voltmeter	.50"	3-50VDC	4-25VDC	33.95	30.95	27.95
2095058	EMT 1900	3½-digit, LCD thermometer	.50"	4-28VDC	14-122°F	33.95	30.95	27.95
2095074	EMC 1500	5-digit, LCD hour meter	.35"	5-27VDC	99999 hours	33.95	30.95	27.95
2095082	EMA 1710	Analog-style LCD panel meter	—	5-12VDC	0-1VDC	33.95	30.95	27.95



## Passive Component R/C SMD Tweezer Meter

One hand operation for fast, precise identification and measure of surface mount components.

- 4000 count LCD display
- Over range & low battery indicators
- Measures resistance, capacitance and diode test
- Relative mode for zero or user applied reference
- Cap. range: 4nF, 40nF, 400nF, 4µF, 40µF, 200µF
- Resis. range: 400Ω, 4kΩ, 400kΩ, 4MΩ, 40MΩ



Part No.	Mfr. Part No.	1	5
1939685	RC100	\$59.95	\$54.95

## 50mV/50A Current Shunt

- Current range: 0 to 50A
- Accuracy: 0.8% ±0.2mV
- Output ratio: 1mV/1A
- Max. current: 100A



Part No.	Product No.	1	5	25
162309	ST-50	\$25.95	\$23.95	\$21.95



## Passive-Component Digital LCR Meter

- 4½-digit backlit LCD display
- Test frequencies of 120Hz and 1kHz
- Selectable parallel or series equivalent circuit
- Res. ranges: 20Ω to 10MΩ
- Cap. ranges: 2000pF to 10mF
- Induc. ranges: 2000µH to 10,000H
- Quality (Q) reading: 0 to 9999
- Set HI/LO limits, absolute or percentage
- Bidirectional RS-232 port with optional software
- Max./Min./Avg. recording with auto power off
- Accuracy of 0.7% for L & C, 0.5% for R
- Dissipation Factor (D) reading: 0 to 0.9999
- Measures L, C & R w/ secondary parameter Q, D or R; both are displayed
- Size: 3.6"W x 2.1"D x 7.6"H • Weight: 0.8 lbs.



Includes: Test leads, alligator clips, 9V battery & holster

Part No.	Description	1	5
198678	LCR Meter	\$199.95	\$189.95
189238	9VDC adapter for P/N 198678	5.95	5.35

★ Thermometers — Enter Web Code CEL



## Kill A Watt™ Energy Consumption Meters

Measures how much energy appliances consume. Simply connect appliances to the Kill A Watt™, and it will assess how efficient they really are. Counts consumption by the Kilowatt-hour, same as your local utility. You can calculate your electrical expenses by the day, week, month, even an entire year. Also check the quality of your power by monitoring voltage, line frequency and power factor.



SAVE ENERGY!

- Forecast your costs
- Max. power: 1875VA
- Displays volts, amps, watts and Hz
- Maximum current: 15A
- Operating voltage: 115VAC
- Large LCD display
- 0.2% accuracy

2075954: Displays usage in dollars

Part No.	Mfr. Part No.	Measures	1	5
2075946	P4400	8	\$22.49	\$19.95
2075954	P4460EZ	10	39.95	36.95

★ Cable Testers — Enter Web Code TBF



## Batt-O-Meter

This battery tester looks inside your music instruments and 9V devices to measure voltage and remaining hours to use. Features a gold-plated 1/4" power probe that plugs into most instruments and effects pedals to test remaining life of those hard to reach batteries.

- Small and portable
- Self test function
- Externally test alkaline, rechargeable and carbon zinc (9V, AA, AAA...) batteries with selector switch
- Works on any guitar pedal
- Identifies pedal and measures power



Part No.	Mfr. Part No.	1	5
2125122	Batt-O-Meter	\$24.95	\$23.95



## Electronic Starter Kit

This kit includes everything you need to get started with electronics.

Includes one of each:

- 8 function 20K count DMM (P/N 318764, pg 143)
- 6.5" x 3.125" breadboard (P/N 20758, pg 162)
- Wire cutter (P/N 35482, pg 151)
- Wire stripper (P/N 127862, pg 150)
- Solder (P/N 170457, pg 160)
- Hook-up wire (P/N 126085, pg 53)
- 11-pc. precision screwdriver set (P/N 226094, pg 153)
- Jumper wire kit (P/N 2096018, pg 163)
- Electrical tape (P/N 285587, pg 160)
- Soldering iron (P/N 129040, pg 155) and stand (P/N 36329, pg 155)
- Assorted capacitors (P/N 17911, pg 39) and resistors (P/N 134130, pg 39)



JAMECO EXCLUSIVE

Part No.	Description	1	5
2099171	Electronic Starter Kit	\$99.95	\$89.95



## USB Data Loggers

- Measures and stores up to 32,000 readings
- High & low alarms, start date/start time
- User programmable alarm thresholds
- Temp. range: -31°F to 176°F
- Data can be graphed, printed and exported to other applications
- Windows® 98/2000/XP/Vista compatible software included

★ Web Code: LOG

2076367: Temperature, humidity & dew point data logger

- 2½-digit LCD display
- Relative humidity range: 0 to 100% RH
- Data logger set-ups: logger name, °F/°C, logging rate (10 seconds to 12 hours)

2076412: Standalone data logger

- Immediate, delayed and push-to-start mode
- High contrast LCD shows last, high and low stored readings

2113181: Temperature & relative humidity logger

- Measurement Range: -20 to +70°C; 0 to 100% RH
- User-Programmable Alarm Thresholds for T & RH%

2076404: Carbon monoxide data logger

- CO measurement range: 0 to 1000 ppm
- LED and buzzer alert when warning level is exceeded

Part No.	Mfr. Part No.	1	5
2076367	EL-USB-2-LCD	\$99.95	\$89.95
2076412	EL-USB-TC-LCD	99.95	89.95
2113181	EL-USB-RT	85.95	79.95
2076404	EL-USB-CO	124.95	117.95



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RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

## Environmental Meters & Testers

When you're out in the field, there are plenty of times where measurements need to be taken, but the challenge lies in physically getting to the area to take the measurement. This line of environmental meters and testers can make testing much simpler, like our infrared thermometers that can take temperatures from further distances without having to make contact. These products measure everything from air velocity and sound levels to gas leakage and electromagnetic fields. If there's a measurement to be taken, these tools can do the job.



F of V: Field of View (Distance to target)

★ Web Code: EMT

Part No.	Manufacturer	Mfr. Part No.	Description	1	5
1537299	Extech	IR100	Thermometer, Mini IR, measures temp. (-31 to 446°F) F of V 1:1	\$39.95	\$36.95
219361	Extech	IR-201	Thermometer, Pocket IR w/ Laser Pointer, measures temp. (-58° to 518°F) F of V 6:1	59.95	56.95
2112541	Extech	42510A	Thermometer, wide range mini IR, 12:1 compact thermometer w/ laser pointer (-58 to -1200°F/-50 to -650°C) 12:1 Compact IR	99.95	94.95
214480	Fluke	FLUKE-52-2	Thermometer, measures temp. large backlit dual display, dust splash resistant (-328° to 2501°F)	269.95	249.95
198045	Extech	445703	Thermometer, Digital Hygro/Humidity Meter w/ Indoor Readings, measures temp. (14° to 140°F) & RH (10-99%),	39.95	37.95
1939634	Extech	445713	Thermometer, Digital Hygro/Humidity Meter w/ Indoor & Outdoor Readings & Remote Sensor on 35' cable, temp. (14° to 140°F) & RH (10-99%)	44.95	39.95
218085	Extech	45118	Thermo-Anemometer, Mini, measures temp. (0° to 122°F) & air velocity (1.1 to 62.5mph)	99.95	89.95
1939731	Extech	RPM10	Thermometer, IR & Tachometer, measures temp. (-4° to 600°F) & RPM: photo tach. (10 to 99,999 rpm), contact tach. (.5 to 19,999 rpm) & surface speed (.2 to 6560 feet/min or .05 to 1999.9 miles/min)	289.95	269.95
2112575	Extech	EA11A	Thermometer, Type K, EasyView Series, Dual LCD, Single input with thermocoupler (-58 to 1999°F, -50 to 1300°C)	89.95	84.95
2094266	Extech	DA50	AC Current Detector, telescoping 3', non contact, 200-1000A @ 50/60Hz, for shielded and hidden wires	39.95	37.95
1585899	Extech	CB100	AC Circuit Breaker Finder & Receptacle Tester, locates 110 to 125 volt AC circuits & fuses and has push button GFCI test	39.95	36.95
2094282	Extech	RT30	AC Circuit Identifier, wireless remote, confirms correct circuit is open mid-wire, w/o having to connect directly to the wires	129.95	119.95
1581169	Extech	FG100	Combustible Gas Leak Meter, detects: LNG, LPG from 500 to 6500 ppm	59.95	54.95
2094291	Extech	DT100	Distance Meter, ultrasonic, laser pointer IDs targets from 20° to 50', calculates: sum of measurements, area and volume	39.95	36.95
131764	Various	LX-102	Light Meter, Digital, ranges: LUX 0 to 50,000, footcandle 0 to 5,000	109.95	89.95
2112612	Extech	HD700	Manometer, differential pressure meter, USB, software, 0-2 PSI, 11 UOM	179.95	169.95
2112567	Extech	380260	Megohmmeter, autoranging, digital, insulation test voltages, 250V, 500V, 1000V, insulation resis. 200MΩ, 2000MΩ, large display	229.95	214.95
1939642	Extech	480836	RF EMF Strength Meter, measures frequency (50MHz to 3.5GHz)	229.95	209.95
645642	Extech	407730	Sound Level Meter, Digital, decibel range (40dB to 130dB)	89.95	79.95
2094274	Extech	DV50	Voltage Detector, telescoping 3', non contact, 5-1000VAC @ 50/60Hz, for shielded and hidden wires	29.95	27.95
2112604	Extech	480400	Phase Sequence Tester, 40 to 600VAC rated test range for testing phase orientation of three phase power sources, graphical display	79.95	74.95
198002	Extech	40180	Tone Generator & Amplifier Probe, tests: wire trace, continuity, clear/busy/ringing line, & tip/ring ID	79.95	72.95
681504	BK Precision	1253	HDTV Portable Pattern Generator for: Plasma, LCD, TFT, CRT, DLP, GLV, & OLED digital systems	299.95	284.95
1928468	Vastech	KT45	Cable Tester for Network & CATV, auto test for continuity, miswires, shorts, open circuits, & reversals	19.95	17.95
145710	BenchPro	145710	Modular Cable Tester, tests 10Base-T, 10Base-2, RJ45/RJ11, 356A, TIA568A/568B, & Token Ring cables, tests: continuity, miswiring, open circuits, shorts, grounding & pin configurations, includes 4 adapters	69.95	62.95
14285	BenchPro	RS232	RS232 Line Tester, identifies simple interface problems on lines 2-6, 8, 11, 19, 20	7.95	6.95
26729	BenchPro	31D3	RS232 Mini Line Tester, tests any RS-232 (DB25) interface 7 bi-color LEDs indicate status	7.95	6.95
105196	Various	TRIPORT	RS232 Signal Adapter/Splitter, metal connectors DB25F/M & DB9M gold plate DC contacts	4.95	4.49

Test/Tools

★ Web Code: **EPS**

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Web Code

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Enter web codes online for additional product listings & specifications. Look for the web code box on the home page.

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



Clamp, Analog & Digital Multimeters

See [www.Jameco.com](http://www.Jameco.com) for complete specifications

4 LEVELS OF SAVINGS

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HOUSE BRANDS

FACTORY OVERRUN

DOLLAR SALE

RoHS

RoHS Compliant Product

RoHS Also Available

DETAILS ON PAGE 189

Clamp, Analog & Digital Multimeters

EXTECH

38073

P/N 1536843

\$16.95

VASTECH

DT830B

P/N 1928476

\$8.95

EXTECH

MN35

P/N 645618

\$19.95

EXTECH

381676

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\$39.95

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DM7

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MASTECH

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DVM850BL

P/N 355207

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\$14.95

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MAS838

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BP-1415

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EX330

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\$53.95

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EXTECH

EX505

P/N 2094127

\$109.95

FLUKE

115

P/N 1537328

\$156.95

FLUKE

117

P/N 1537336

\$199.95

★Web Code: HBK

★Web Code: HBK

* Web Code: HBK					Basic Measurement Functions												Test Functions				Special Functions				* Web Code: HBK		
Jameco Part No.	Manufacturer Part No.	Type	No. of Functions	Display Count	Resolution (max DC)	DC Voltage Ranges (V)	AC Voltage Ranges (V)	DC Current Ranges (A)	AC Current Ranges (A)	Resistance Ranges (Ω)	Capacitance Ranges (F)		Frequency Ranges (Hz)	Temperature Range		Diode Test	Battery Test	Continuity Test	Transistor hFE Test	Autorange	Analog Bargraph	RS-232 PC Interface	True RMS	Size (H"xW"xD")	Jameco Part No.	Pricing	
														°C	°F											1	5
1536843	Extech 38073	AMM	6	1	—	2.5V - 300V	10V - 300V	0.5A - 250mA	—	10KΩ - 1MΩ	—		—	—	—	✓	✓						3.5 x 6.1 x 1.9	1536843	\$16.95	\$15.95	
1928476	Vastech DT830B	DMM	4	1999	—	200mV - 1000V	200V - 750V	200μA - 10A	—	200Ω - 2MΩ	—		—	—	—	✓			✓				5.0 x 2.7 x 1.0	1928476	8.95	7.95	
645618	Extech MN35	DMM	5	2000	100μV	200mV - 600V	200mV - 600mV	200mA - 10A	—	200Ω - 20MΩ	—		—	-20 to 750	-200 to 1400	✓		✓					5.4 x 3.0 x 1.5	645618	19.95	17.95	
1537184	Extech 381676	DMM	5	2000	100μV	200mV - 600V	200m - 600V	—	—	200Ω - 20MΩ	—		—	—	—	✓		✓		✓			8.2 x 1.5 x 1.1	1537184	39.95	36.95	
214261	Wavetek DM7	DMM	6	1999	1mV	2V - 600V	200V - 600V	200mA	—	2Ω - 2MΩ	—		—	—	—	✓	✓						5.5 x 3.1 x 1.5	214261	24.95	19.95	
220812	Mastech M300	DMM	6	2000	1mV	2V - 500V	200V - 500V	200mA	—	2kΩ - 2MΩ	—	↔	—	—	—	✓		✓					4.7 x 2.7 x 0.8	220812	10.95	9.95	
355207	Velleman DVM850BL	DMM	6	2000	100μV	200mV - 100V	200V - 600V	200μA - 10A	—	200Ω - 2MΩ	—		—	—	—	✓		✓	✓				5.4 x 2.7 x 1.2	355207	17.95	15.95	
318781	BenchPro BP-1562	DMM	6	2000	100μV	200mV - 600V	200V - 750V	200μA - 10A	—	200Ω - 2MΩ	—		—	—	—	✓			✓				5.4 x 2.7 x 1.2	318781	10.95	9.95	
220759	Mastech MAS830L	DMM	7	2000	100μV	200mV - 600V	200V - 600V	200μA - 10A	—	200Ω - 2MΩ	—		—	—	—	✓		✓	✓				5.7 x 3.0 x 1.4	220759	14.95	13.95	
2113471	Fluke-87-5	DMM	7	6,000	10uV	0 - 1000V	0 - 1000V	0 - 10A	0 - 10A	0 - 50M	0 - 9999μF	0 - 200K	-200 to 1090	-328 to 1994		✓		✓		✓		✓	7.4 x 3.4 x 1.3	2113471	379.95	359.95	
220741	Mastech MAS838	DMM	8	2000	100μV	200mV - 600V	200V - 600V	2mA - 10A	—	200Ω - 2MΩ	—		—	-20 to 1000	—	✓		✓	✓		✓		5.7 x 3.0 x 1.4	220741	19.95	17.95	
2113480	Fluke-233	DMM	8	10,000	100μV	0.1mV - 1000V	0.1mV - 1000V	1mA - 10A	1mA - 10A	0.1 - 40M	1000nF - 9999μF	0.1 - 50K	-40 to 400	-40 to 752		✓		✓				✓	7.6 x 3.5 x 2.1	2113480	299.95	284.95	
318764	BenchPro BP-1415	DMM	8	20,000	10μV	200mV - 1000V	2V - 700V	2mA - 20A	2mA - 20A	200Ω - 200MΩ	2000pF - 20μF		20k	—	—	✓		✓	✓				7.4 x 3.6 x 1.2	318764	59.95	54.95	
645626	Extech EX330*	DMM	9	4000	100μV	.1mV - 1000V	.1mV - 750V	.1μA - 10A	.1μA - 10A	.1Ω - 40MΩ	.001nF - 200μF		.001 - 10M	-50 to 1000	-58 to 1832	✓		✓		✓			5.7 x 2.9 x 1.6	645626	53.95	49.95	
1581177	Extech EX430	DMM	9	4000	100μV	.1mV - 1000V	.1mV - 750V	.1μA - 20A	.1μA - 20A	.1Ω - 40MΩ	.1nF - 100μF		.001 - 10	-20 to 750	-4 to 1382	✓		✓		✓		✓	7.4 x 3.2 x 2.0	1581177	89.95	79.95	
2094127	Extech EX505	DMM	9	4000	10μV	400mV - 1000V	400mV - 1000V	400μA - 10A	400μA - 10A	400 - 40M	40nF - 100μF	↔	5.999 - 9.99M	-20 to 750	-4 to 1382	✓		✓		✓			7.2 x 3.2 x 2.2	2094127	109.95	105.95	
1537328	Fluke 115†	DMM	9	6000	100μV	600mV - 600V	600mV - 600V	6A - 20A	6A - 20A	600Ω - 40MΩ	1000nF - 9999μF		99.99 - 50k	—	—	✓		✓		✓	✓		✓	6.3 x 3.3 x 1.9	1537328	156.95	149.95
1537336	Fluke 117*†	DMM	9	6000	100μV	600mV - 600V	600mV - 600V	6A - 20A	6A - 20A	600Ω - 40MΩ	1000nF - 9999μF		99.99 - 50k	—	—	✓		✓		✓	✓		✓	6.3 x 3.3 x 1.9	1537336	199.95	189.95
1939651	Extech EX530	DMM	9	40,000	100μV	400mV - 1000V	400mV - 1000V	400mA - 10A	400mA - 10A	400Ω - 40MΩ	40nF - 40μF		40 - 400	-45 to 750	-50 to 1382	✓		✓		✓		✓	7.4 x 3.2 x 2.0	1939651	209.95	199.95	
2118459	RSR MS8229	DMM	10	3999	1V	400mV - 1000V	400mV - 750V	400μA - 10A	400μA - 10A	400Ω - 40MΩ	40μF - 100μF		9.999 - 200k	-20 to 1000	-4 to 1832	✓		✓		✓			7.7 x 3.6 x 2.2	2118459	99.95	89.95	
692502	Extech DM110	DMM	10	4000	100μV	0 - 500V	0 - 500V	0A - .40	0A - .40A	400Ω - 40MΩ	0 - 200μF		9 - 10M	—	—	✓		✓					4.3 x 2.2 x 0.5	692502	34.95	30.95	
220775	Mastech MY64	DMM	11	2000	100μV	200mV - 1000V	200mV - 700V	2mA - 10A	2mA - 10A	200Ω - 200MΩ	2nF - 20μF		2k - 20k	-20 to 1000	—	✓		✓	✓				7.4 x 3.6 x 1.3	220775	39.95	35.95	
645571	Velleman DVM890F	DMM	11	2000	100μV	200mV - 1000V	2V - 700V	2mA - 20A	20mA - 20A	200Ω - 200MΩ	2000pF - 20μF		—	—	-58 to 1832	✓		✓		✓			6.7 x 3.5 x 1.5	645571	44.95	39.95	
211650	Extech MN26T	DMM	11	4000	100μV	400mV - 600V	400mV - 600V	400μA - 10A	400μA - 10A	400Ω - 40MΩ	4nF - 200μF		10 - 10M	0 to 760	0 to 1400	✓		✓		✓			4.8 x 2.4 x 1.6	211650	39.95	37.95	
117373	BenchPro BP-1949	DMM	11	4000	100μV	400mV - 400V	4V - 400V	400μA - 10A	400μA - 10A	400Ω - 4MΩ	50nF - 100μF		5 - 50k	-20 to 1000	-4 to 1532	✓		✓		✓	✓		7.7 x 3.6 x 1.6	117373	79.95	69.95	
137462	BenchPro MS8226T	DMM	11	4000	100μV	400mV - 400V	4V - 400V	400μA - 10A	400μA - 10A	400Ω - 4MΩ	50nF - 100μF		5 - 50k	-20 to 1000	—	✓		✓		✓		✓	7.7 x 3.6 x 1.6	137462	99.95	89.95	
220767	Mastech MY68	DMM	12	3260	100μV	326mV - 1000V	3.26V - 700V	326μA - 10A	326μA - 10A	326Ω - 32.6MΩ	326nF - 32.6μF	↔	32.6k - 150k	—	—	✓		✓		✓	✓		7.4 x 3.6 x 1.3	220767	44.95	39.95	
192655	Fluke 175	DMM	12	6000	100μV	600mV - 1000V	600mV - 1000V	60mA - 10A	60mA - 10A	600Ω - 50MΩ	1000nF - 9999μF	↔	99.99 - 99.99k	—	—	✓		✓		✓	✓		7.3 x 3.5 x 1.7	192655	249.95	239.95	
2112532	Extech EX570	DMM	12	40,000	—	0.1mV - 1000V	0.1mV - 1000V	.1μA-20A	.1μA-20A	0.01 - 40M	.001nF - 10,000μF		.0001Hz - 40MHz	-45 to 750	-50 to 1382	✓	✓	✓	-	-	✓	✓	7.25 x 3.25 x 2.25	2112532	249.95	234.95	
185535	Fluke 179†	DMM	13	6000	100μV	600mV - 1000V	600mV - 1000V	60mA - 10A	60mA - 10A	600Ω - 50MΩ	1000nF - 9999μF		99.99 - 99.99k	-40 to 400	-40 to 752	✓		✓		✓	✓		✓	7.3 x 3.5 x 1.7	185535	279.95	269.95
2094119	Extech EX613\$	Clamp	9	40,000	10μV	0 - 600V	0 - 600V	400A	400A	.01Ω - 40M	10pF - 40,000μF		40MHz max.	-50 to 1000	-58 to 1832					✓		✓	9.7 x 4.0 x 1.9	2094119	179.95	169.95	
374070	Extech MA220	Clamp	10	4000	100μV	400mV - 600V	400mV - 600V	40A - 400A	40A - 400A	400Ω - 40MΩ	40nF - 100mF		5 - 150k	-50 to 1000	-58 to 1830	✓		✓					7.9 x 2.0 x 1.4	374070	99.95	89.95	
1585881	Extech EX830\$	Clamp	11	4000	100μV	0.1mV - 600V	0.1mV - 600V	100mA - 1000A	100mA - 1000A	.01Ω - 40MΩ	0.001nF - 40000μF		0.001 - 4k	-50 to 270	-58 to 518	✓		✓				✓	8.5 x 4.3 x 2.0	1585881	209.95	199.95	

\* With non-contact voltage detector (100-600VAC range)

† With backlight

\$ Soft case included

EXTECH

EX530

P/N 1939651

\$209.95

EXTECH

DM110

P/N 692502

\$34.95

MASTECH

MY64

P/N 220775

\$39.95

velleman

DVM890F

P/N 645571

\$44.95

EXTECH

MN26T

P/N 211650

\$39.95

JAMECO

BenchPro

BP-1949

P/N 117373

\$79.95

JAMECO

BenchPro

BP-1737

P/N 137462

\$99.95

MASTECH

MY68

P/N 220767

\$44.95

FLUKE

175

P/N 192655

\$249.95

EXTECH

EX570

P/N 2112532

\$249.95

FLUKE

179

P/N 185535

\$279.95

EXTECH

EX613

P/N 2094119

\$179.95

EXTECH

MA220

P/N 374070

\$99.95

EXTECH

EX830

P/N 1585881

\$209.95

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above





## 3-in-1 Multimeter and Cable/Line Tester

- 2000 count LCD display (15mm display size) w/ automatic polarity indication and white backlight
- Continuity and diode test
- DC voltage ranges: 0.2 to 1000V
- AC voltage ranges: 0.2 to 700V
- DC current ranges: 200µA to 10A
- AC current ranges: 200µA to 10A
- Size: 3.3"W x 1.1"D x 7.3"H
- Weight: 1.4 lbs.



**Includes:** 9V battery, test leads, remote box for cable testing, and users manual

Part No.	Mfr. Part No.	1	5
1955984	DVM1000	\$79.95	\$74.95



## 3-in-1 Lab Center

### Oscilloscope:

- 10MHz bandwidth
- Real-time sampling rate up to 40MS/s
- Readouts: DC, DC+AC, True RMS, dBm, Vpp, Min-Max. • White LED backlight



### Function Generator:

- DDS type generator
- DAC resolution: 10 bits
- Frequency range: 1Hz to 1MHz
- Waveforms: sine, square, triangle
- Sweep function with bi-directional option

### Power Supply:

- Fixed output voltages: 3V, 5V, 6V, 9V, 12V (±5%)
- Peak output current: 1A
- LED output overload indicator

**Includes:** Scope probe, RCA adaptor, user manual and AC cord

Part No.	Mfr. Part No.	1	5
2120840	LAB2U	\$324.95	\$294.95

**\*Digital Multimeters — Enter Web Code HBK**

## 2000-Count Multimeters

- Resolution: 100µV max.
- DC voltage ranges: 200mV – 1000V
- Size: 7.5"W x 9.6"D x 2.5"H
- Weight: 2.6 lbs.



### 160830: 3½-Digit – 10A

- DC/AC current ranges: 20µA – 10A
- AC voltage ranges: 200mV – 700V
- Resistance ranges: 200Ω – 20MΩ
- Conductance ranges: 2µS – 200nS

### 421542: 3½-Digit – 2A

- DC/AC current ranges: 200µA – 2A
- AC voltage ranges: 200mV – 750V
- Resistance ranges: 200Ω – 20MΩ
- Conductance ranges: 2mS – 200nS
- Frequency ranges: 20Hz – 50kHz

♣ Refurbished = Backed by Jameco

Part No.	Mfr. Part No.	1	5
160830	8010A♣	\$169.95	\$149.95
421542	8050A♣	239.95	224.95

**Limited Supply – Great Price!**

*Our goal is to provide you with more of what you want. Let us know how we can better serve your electronic needs.*

**Send feedback to**  
**Management@Jameco.com.**

## 4000-Count True-RMS Benchtop Multimeter with RS-232

- 9 functions, 32 ranges
- 3½-digit backlit LCD display with bargraph
- Auto/manual ranging
- True RMS AC volts and amps
- Resolution: 100µV maximum
- DC voltage ranges: 400mV – 1000V (0.3% accuracy)
- AC voltage ranges: 4V – 750V
- DC/AC current ranges: 4mA – 10A
- Resistance ranges: 400Ω – 40MΩ
- Capacitance ranges: 4nF – 40µF
- Frequency ranges: 100Hz – 600kHz
- Diode and continuity test • Delay hold mode
- Min., max., and relative hold function
- Input voltage: 9V battery or 90-132VAC/198-264VAC @ 50-60Hz • Weight: 3.3 lbs.
- Size: 9.0"W x 9.4"D x 3.3"H • Two-year warranty



**Includes:** Manual, test leads, power adapter, 9V battery, RS-232 cable & software (98/ME/2000/XP compatible)

Part No.	Mfr. Part No.	1	5
230586	B940	\$179.95	\$169.95

## 20MHz/30MHz 2-Channel Analog Oscilloscopes

- 6" rectangular screen with internal graticule and scale
- Vertical deflection: 1mV/div to 1V/div (5MHz, 3dB) x 5 (P/N 685311); (10MHz, 3dB) x 5 (P/N 2112823) gain selected
- Horizontal deflection: 0.1µs/div to 2.0s/div in 1-2-5 sequence, 23 steps
- Max. input voltage: 400V (DC + AC peak)
- Input volt.: 115/230VAC with line voltage selector
- ADD function measures sum of 2 signals (P/N 685311)
- Size: 12.8"W x 15.7"D x 5.2"H • Weight: 16.8 lbs.

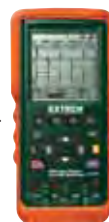


**Includes:** 2 (X1/X10) test probes, power cord & manual

Part No.	Mfr. Part No.	1	5
685311	SK0200 (20MHz)	\$429.95	\$399.95
2112823	SK0300 (30MHz)	499.95	459.95

## 5MHz Handheld Digital Oscilloscope with True-RMS Multimeter

- Record length: 512 single shot, 256 all other functions
- Sample mode: single shot, roll, normal
- Vertical sensitivity: 50mV max.
- Input voltage: 600VDC or AC<sub>RMS</sub> max.
- Input impedance: 1M
- Resolution: 100µV max.Ω
- USB PC interface and software for transferring waveforms and data
- Sampling time: 25MS/s dual ch.; 50MS/s single ch.
- DC voltage ranges: 0.1mV to 1000V
- AC (TRMS) voltage ranges: 0.1mV to 750V
- Resistance ranges: 0.001kΩ to 5MΩ
- Frequency ranges: 0.01Hz to 10MHz
- RPM ranges: 240 to 60,000 RPMs
- Size: 3.5"W x 1.8"D x 7.7"H



**Includes:** Test leads, alligator clips, Ni-MH battery pack, AC adapter/charger, RS-232 cable, holster & carrying case

Part No.	Mfr. Part No.	1	5
2112639	381295A	\$499.95	\$474.95



## Handheld Pocket Oscilloscopes

**NEW**  
MARKED IN PINK

Never be left without a scope again!

- Real-time sampling rate: 40MS/s
- Full auto range option
- Hold & store functions
- Direct audio power measurement



2127339:

- NiMH rechargeable battery
- Size: 2.9"W x 1.1"D x 4.5"H

2128294:

- Adjustable trigger level
- Multiple screen modes
- Screen capture function
- Li-Ion rechargeable battery
- Size: 4.3"W x 1.6"D x 6.9"H

**Includes:** Measuring probe and

Part No.	Mfr. Part No.	1	5
2127339	HPS140I (10MHz)	\$209.95	\$189.95
2128294	HPS50 (12MHz)	399.95	379.95

## 25/40MHz 2-Channel Digital Oscilloscopes

- API-0025 (25MHz) & API-0040 (40MHz)
- Display: 5.7" brilliant color TFT display with 64k color
- USB host/device: support USB printer and USB flash drive
- 12 language screen menu
- Math: add, subtract, FFT
- Digital filter function, waveform recorder function, pass/fail function
- Measure system:
  - 32 parameters auto measure
  - Cursor measure: manual, track, and auto mode
- Real time sampling rate:
  - 2126969: 500MSa/s in single channel, 250MSa/s in dual channel
  - 2126951: 1GSa/s in single channel, 500MSa/s in dual channel
- Equivalent sampling rate: 50GSa/s
- Size: 12"L x 5.3"W x 6.0"H • Weight: 5.0 lbs.



**Includes:** Oscilloscope probes, USB cable, manual, and CD software

Part No.	Mfr. Part No.	1	5
2126969	API-0025	\$469.95	\$425.95
2126951	API-0040	659.95	595.95

## 100MHz Analog Oscilloscope

- 2-channel dual trace
- Auto focusing according to intensity
- Delay line
- Weight: 22.8 lbs.
- Two-year warranty
- Size: 16.9"L x 12.6"W x 5.5"H



**Includes:** Two (X1/X10) 100MHz probes, power cord, and operations manual

Part No.	Mfr. Part No.	1	5
121179	OS5100	\$999.95	\$965.95

**\*Oscilloscopes Available Online — Enter Web Code RCG**

**INSTEK**

## 150MHz 2-Channel Digital Oscilloscope

- USB Interface & SD card supported
- Bandwidth (~3dB): 150MHz
- Real-time sample rate: 1GSa/s real-time sample rates maximum, 25GSa/s
- 2-channels with 8-bit vertical resolution
- 2Mega point record length
- Auto set vertical, horizontal, and trigger level
- Vertical sensitivity: 2mV/div ~ 10V/div
- Input voltage: 100-240VAC @ 48-63Hz
- Time base range: 1ns/div ~ 50s/div
- Trigger sensitivity: DC-25MHz: 0.5div or 5mV
- 25MHz ~ 150MHz: 1.5div or 15mV
- Frequency counter: 6 digits
- Size: 12.2"W x 5.6"H x 5.5"D • Weight: 5.5 lbs.

**Includes:** BNC cable, power cord & oper. manual

Part No.	Mfr. Part No.	Price
2118491	GDS-1152A	\$1,099.95



## 3MHz Function Generator with Positive and Negative Pulses

- 6 waveforms: sine, square, triangle, ramp, positive pulse and negative pulse
- Input voltage: 110VAC
- Output impedance: 50Ω ±2%
- Knob selector switches for waveforms and frequency ranges
- Frequency range: 0.5Hz to 3MHz in 6 ranges via rotary switch
- Size: 10.5"W x 11.2"D x 3.9"H
- Weight: 6.6 lbs.

Part No.	Mfr. Part No.	1	5
685329	SK3000	\$209.95	\$189.95



## 5MHz Function Generator

- Waveforms: sine, square, triangle and ramp
- 0.5 to 5MHz
- 100% DC offset
- Variable duty cycle
- Output impedance: 50Ω
- Coarse and fine tuning
- Size: 10.4"W x 11.7"D x 3.4"H
- Weight: 6.2 lbs. • Two-year warranty

Part No.	Mfr. Part No.	1	5
160469	BK4011A	\$369.95	\$349.95

**BK PRECISION**



## 50MHz 2-Ch USB PC Oscilloscope

The PCSU1000 digital storage oscilloscope uses the power of your PC to visualize electrical signals. It has a highly sensitive display resolution, down to 0.15mV, combined with a high bandwidth and a sampling frequency of up to 1GHz.

**Oscilloscope:**

- Input range: 5mV to 2V/division
- Time base: 20ns to 100ms per division
- Trigger source: CH1, CH2, EXT or free run
- Real time sampling frequency: 1.25kHz to 50MHz

**Spectrum Analyzer:**

- Frequency range: 1.2kHz to 25MHz
- FFT resolution: 2048 lines
- FFT input channel: CH1 or CH2

★ Web Code: RCG

**Transient Recorder:**

- Timescale: 20ms/Div to 2000s/Div
- Max record time: 9.4 hour/screen
- Min./Max. number of samples: 20/s; 100/s

**System Requirements:** IBM compatible PC, Windows® 98SE or later, SVGA display card, USB port

**Includes:** PC oscilloscope, 2 x 60MHz scope probes, USB cable and CD-ROM

Part No.	Mfr. Part No.	1	5
695017	PCSU1000	\$499.95	\$459.95



## 2MHz & 3MHz Function Generators w/ Frequency Counter

**Function Generator**

- Waveforms: sine, triangle, square, TTL and CMOS output
- Output amplitude: >10Vp-p into 50Ω load
- Output impedance: 50Ω ±10%
- DC offset range: <-5V to >+5V into 50Ω load

**Frequency Counter**

- Input voltage: 115/230VAC @ 50-60Hz
- Weight: 4.4 lbs. • Two-year warranty
- 229251: 4-digit LCD display
- Ranges: 0.2Hz to 2MHz • Size: 9.1"W x 11.0"D x 3.7"H
- 229260: 6-digit LCD display with ramp
- Ranges: INT/EXT switch, 0.3Hz to 3MHz internal and 5Hz to 150MHz external; resolution of 10Hz to 0.1Hz • Size: 9.9"W x 11.5"D x 3.6"H

**Includes:** Power cord, operations manual and leads

Part No.	Mfr. Part No.	Description	1	5
229251	GFG-8020H	2MHz	\$249.95	\$229.95
229260	GFG-8216A	3MHz	299.95	269.95



**INSTEK**

## 40MHz Multifunction Oscilloscopes w/ Built-In 5MHz Function Generator

**Oscilloscope:**

- 6" rectangle high resolution CRT
- Max signal input volt.: 400V (DC and AC peak)
- Input voltage: 100/120/220/240VAC @ 50-60Hz
- Size: 15.7"L x 12.8"W x 5.2"H • Weight: 26 lbs.
- Two-year manufacturer's warranty

**1586200: With built-in 60MHz auto-detect counter**

**Function Generator:**

- Frequency range: 0.5Hz to 5MHz (6 ranges)
- Output waveforms: sine, triangle, square
- Output impedance: 50Ω
- Output volt: 20Vp-p (no load), 10Vp-p (w/ 50Ω load)
- See [www.jameco.com](http://www.jameco.com) for additional specifications

Part No.	Mfr. Part No.	1	5
1536886	SK0404	\$599.95	\$539.95
1586200	SK0409	749.95	699.95



## 150MHz 2-Channel Universal Frequency Counter

- 8-digit green LED display (0.56" digit height)
- Adjustable range & gate time
- Freq. range: 0.2Hz ~ 150MHz
- Gate time range 0.01s ~ 10s
- Impedance: 1MΩ, <40pF
- Channel A sensitivity
- 25mVrms: 0.2Hz ~ 100MHz, 50mVrms: 100MHz ~ 150MHz; channel B ~ 25mVrms: 0.2Hz ~ 100MHz
- Count capacity: 0 ~ 99999999 (MHz)
- Input voltage: 100/220 @ 50/60Hz
- Size: 10.0"W x 3.2"H x 10.3"D

Part No.	Mfr. Part No.	1	5
2112840	FC-150U	\$299.95	\$279.95



## 2.4GHz 2-Channel Frequency Counter

- 8-digit green LED display with annunciators
- Adjustable range & gate time
- Frequency ranges: 0.01Hz to 2.4GHz
- Gate time: 100msec to 10sec
- Channel A: DC coupled - 0.01Hz to 100Hz; AC coupled - 100Hz to 50MHz, sensitivity - 80mVrms, 1MΩ impedance
- Channel B: frequency range: 50MHz to 2.4GHz, sensitivity - 50mVrms, 50Ω impedance
- Power supply: 120 to 220VAC
- Size: 10.6"W x 8.5"D x 3.9"H • Weight: 3.5 lbs.

Part No.	Mfr. Part No.	1	5
1955968	DVM13MFC2U	\$159.95	\$149.95



## 5MHz Sweep Function Generator with 60MHz Counter

**Function Generator**

- Waveforms: triangle, sine, square, ramp, positive pulse, negative pulse
- Frequency range and display: 0.05Hz ~ 5MHz, 5-digit LED display (0.001Hz resolution)
- 8 ranges controlled by rotary switch
- DC offset ±10V (no load), ±5V (50Ω load) continuously adjustable controlled by offset switch

**Frequency Counter:**

- 5-digit LED display (0.36" digit height)
- Resolution: 0.001Hz
- Display unit: Hz/kHz (auto) • 20MHz time base
- INT/EXT switch, 0.500Hz to 5000kHz internal with 4 res., 0.2Hz ~ 60MHz external
- Size: 11.8"W x 3.5"H x 10.8"D • Weight 5.5 lbs.
- Includes: power cord and operation manual

Part No.	Mfr. Part No.	1	5
2112831	SK5200	\$299.95	\$279.95

★ Function Generators — Enter Web Code DEJ

★ Frequency Counters — Enter Web Code VCG

## 60/100/250MHz Modular Oscilloscope Probes



- Hook and pointed probes
- Maximum input volt.: 600V
- Length: 5'
- Alligator clip ground wire
- BNC male connector
- 216047/236777: With IC test ground cover and spring ground contact

Part No.	Bandwidth (±3dB)		Impedance (R/C) *	
	Attenuation	Attenuation	Attenuation	Attenuation
22892	6MHz	60MHz	1MΩ/180pF	10MΩ/22pF
216047	6MHz	100MHz	1MΩ/47pF	10MΩ/16pF
236777	6MHz	250MHz	1MΩ/47pF	10MΩ/14pF

\* With 20pF oscilloscope input

Part No.	Product No.	1	5	25
22892	LF101E	\$24.95	\$22.49	\$19.95
216047	HF-9100	29.95	26.95	23.95
236777	HP-9250	39.95	35.95	31.95

★ More Probes Available Online — Enter Web Code RAC

★ For Complete Specs & Additional Product Listings Search [www.jameco.com/More](http://www.jameco.com/More) and Enter Web Code Listed Above



# Probes, Testers & Benchtop Power Supplies

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

## PROBE MASTER

### 150/250MHz Oscilloscope Probes

Designed for use with Tektronix and Hewlett Packard oscilloscopes.

- 3 position switch: x1, ref, x10
- Bandwidth @ 3dB: 10MHz (x1); 150MHz (x10)
- Loading: 57pF, 1MΩ (x1); 15pF, 10MΩ (x10)
- Low-resistance gold contacts
- Cord length: 5'



Part No.	Mfr. Part No.	Description	1	5
174473	4901-02 (150MHz)	7-pc. kit ....	\$59.95	\$53.95
212257	4915A (250MHz)	25-pc. kit ..	159.95	144.95

## Pomona

### 100MHz Probe Set

- Complete accessory kit included
- Compensation range: 10-60pF
- Bandwidth: 15/100MHz (-3dB)
- Attenuation: x1/x10 • 48" cable
- Rise time: 23.33/3.5ns
- Input resistance: 1/10MΩ • Capacitance: 64/10.5pF



Part No.	Mfr. Part No.	1	5
156451	4550B (100MHz)	\$56.95	\$53.95

## PROBE MASTER

### 1000 Volt Probe Kit

- Rating: 1000V 10A
- Gold tips and contacts
- Electronic deluxe probe kit includes leads with shrouded right angle banana plug, probes, sprung hook probes, alligator clips, spade lugs, extender probes, minigator leads, .025" wire wrap leads, pico hooks and pincer hooks



Part No.	Description	1	5
212249	High voltage test probe .....	\$74.95	\$71.95

### High Voltage Test Probe

- Maximum voltages: DC:40kV, AC: 40kV peak, 28kVrms
- Accuracy: DC:±1.5%, AC:±5%
- 10MΩ meter input impedance required
- Input/output impedance: 1,000MΩ/1.1MΩ
- Probe length: 14" • Cable length: 39"



Part No.	Product No.	Weight	1	5	25
132290	HV-40	0.8 lbs. ....	\$79.95	\$73.95	\$69.95

### 17MHz Logic Pulser

- Compatible with TTL, DTL and CMOS ICs
- Pulse repetition rate: 0.5pps/400pps
- 1MΩ sync input impedance
- Pulse width output at 100mA load: 10μs
- Pulse mode output current: 10mA
- Square wave current output: 5mA
- "One shot" or continuous 5Hz pulse train



Part No.	Product No.	1	5	25
24601	LP540H.....	\$29.95	\$26.95	\$23.95

### DV3100 Digital Logic Analyzer

From a new aluminum case to advanced triggering, adjustable threshold, more memory and a wider voltage range, the new DV3100 is the best value in a portable logic analyzer.



- 18 channels @ 100MHz (10ns)
- Automatic real time hardware compression (Tri-mode) • Eliminates res. vs. depth tradeoffs
- +0.5 to +2.8V adjust. threshold
- Ground current protection ±12V
- USB 2.0 & 1.1 compatible

**Includes:** All cables, clips (quantity 20) and software

Part No.	Mfr. Part No.	1	5
2115776	DV3100 .....	\$499.95	\$469.95

### 17MHz Logic Probe

- Max input freq.: 17MHz
- Minimum pulse width: 30ns
- Pulse flash time: 500ms
- Audible tones for high & low
- Input impedance: 1MΩ
- Power supply protection: ±20V
- TTL threshold: Lo = 0.8V ±0.2V, Hi = 2.3V ±0.2V
- CMOS threshold: Lo = 30% VCC, Hi = 70% VCC



Part No.	Product No.	1	5	25
149930	LP3500 .....	\$39.95	\$35.95	\$32.95

### PC Cable-Check® Pro

This powerful universal cable tester troubleshoots and maps 20 types of computer cables for opens, shorts, crosses, and good connections. Tests any combination of D-sub 9-pin, D-sub 15-pin, D-sub 25-pin, Centronics 36-pin printer, USB-A and USB-B, Mini USB, PS/2, RJ-11, RJ-45, BNC female-female cables and Firewire.



- Auto power off, auto & manual scan

**Includes:** 9V battery

**Paladin Tools®**

Part No.	Mfr. Part No.	1	5	25
652480	1577 .....	\$185.95	\$169.95	\$159.95



### 90-Watt Digital DC Power Supply

- 30V @ 3A
- Input voltage: 110/220VAC @ 50-60Hz
- Resolution: 1% ±1 digit accuracy
- Constant volt. and current operation
- Size: 5.1"W x 10.1"D x 5.9"H

**\*Web Code: SAX**



Part No.	Product No.	1	5
489184	DRP-303D .....	\$199.95	\$189.95

### Single Output Benchtop Power Supplies

**\*Web Code: SAX**

- Voltage and current adjustable



301920



175257



645600



301971



207618



2112858



207706



175249

Part No.	Mfr.	Mfr. Part No.	Voltage (VDC)/Current (A)		Power (W)	Displays (Digits)	Input Voltage (VAC)	Short Circuit Protection	Overload Protection	Size (W" x H" x D")	Weight (lbs.)	Pricing	
												1	5
301920	Mastech	HY1503C	15/3	45	2-Analog	115 ±10%	110 @ 60Hz	Y	N	3.8 x 6.3 x 9.1	9	\$99.95	\$89.95
175265	Various	DPS150A	15/10	150	2-Analog	110 @ 60Hz	110 @ 60Hz	Y	Y	6.2 x 4.0 x 5.7	12	149.95	129.95
175257	Various	SPS250A	15/15	225	2-Analog	110/220 @ 47-63Hz	110/220 @ 47-63Hz	Y	Y	6.2 x 4.0 x 5.6	3.8	149.95	129.95
681221	Extech	382202	18/3	54	2-Digital LCD (4)	120 @ 60 Hz	120 @ 60 Hz	Y	Y	9.4 x 6.1 x 4.3	6.6	139.95	129.95
645600	Extech	382200	30/1	30	2-Digital LCD (4)	100/240 @ 47-63Hz	100/240 @ 47-63Hz	Y	Y	9.4 x 6.1 x 4.3	4.4	129.95	119.95
301971	Lascar	PSU130	30/1	30	2-Digital LCD (4)	100/240 @ 47-63Hz	100/240 @ 47-63Hz	Y	Y	5.5 x 1.6 x 5.2	1.2	89.95	84.95
301866	Mastech	HY3003D	30/3	90	2-Digital LCD (4)	115 ±10%	115 ±10%	Y	N	5.4 x 6.2 x 11.5	10	159.95	135.95
207618	Mastech	HY3005C	30/5	150	2-Analog	115 ±10%	115 ±10%	Y	N	5.4 x 6.2 x 11.5	14	159.95	135.95
301911	Mastech	HY3005D	30/5	150	2-Digital LCD (4)	115/230 ±10% (switchable)	115/230 ±10% (switchable)	Y	N	5.4 x 6.2 x 11.5	13	199.95	179.95
2112858	SKMI	LP-3010	30/10	300	1-Digital LED (3)	115 @ 50Hz	115 @ 50Hz	Y	Y	9.3 x 5.4 x 13.6	26.5	599.95	549.95
207626	Mastech	HY3010C	30/10	300	2-Analog	115 ±10%	115 ±10%	Y	N	10.4 x 6.5 x 14.4	31	299.95	269.95
207635	Mastech	HY3010A	30/10	300	2-Digital LED (4)	115/230 ±10% (switchable)	115/230 ±10% (switchable)	Y	N	10.4 x 6.5 x 14.4	31	319.95	289.95
207686	Mastech	HY3020A	30/20	600	2-Digital LED (4)	115 ±10%	115 ±10%	Y	N	10.4 x 6.5 x 14.4	42	499.95	449.95
207694	Mastech	HY5002A	50/2	100	2-Digital LED (4)	115/230 ±10% (switchable)	115/230 ±10% (switchable)	Y	N	5.4 x 6.2 x 11.5	13	149.95	134.95
163723	Various	DPS-3050	50/3	150	2-Analog	110 @ 60Hz	110 @ 60Hz	Y	Y	4.8 x 7.5 x 9.0	12.3	129.95	115.95
207706	Mastech	HY5003	50/3	150	2-Digital LED (4)	115 ±10%	115 ±10%	Y	N	5.4 x 6.2 x 11.5	13	199.95	179.95
301938	Mastech	HY3005	30/5	195	2-Digital LED	115/230 ±10%	115/230 ±10%	Y	N	11.5 x 5.25 x 6.25	10	199.95	179.95
207600	Mastech	HY5005	50/5	250	2-Digital LED (4)	115/230 ±10% (switchable)	115/230 ±10% (switchable)	Y	N	10.4 x 6.5 x 14.4	17	279.95	249.95
175249	Various	DPS5050	50/5	250	2-Analog	110 @ 50-60Hz	110 @ 50-60Hz	Y	Y	7.7 x 6.7 x 4.9	13.8	179.95	159.95

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.





## Multiple Output Benchtop Power Supplies

These benchtop power supplies are a must for every laboratory. They sit out of the way of your workspace and stay ready to supply power at all times. Single and multiple outputs are available for your specific laboratory needs. Standard banana input plugs provide easy connections, and precision adjustment knobs provide exact power outputs for all your projects.

For more information, visit [www.Jameco.com](http://www.Jameco.com).

• Voltage and current adjustable

\*Web Code: SAX

Perfect for  
Laboratory Use



211693



301962



301947



197991



197982



1939618

Part No.	Mfr.	Mfr. Part No.	Voltage (VDC)/ Current (A)	Power (W)	Input Voltage	Displays(Digits)	Short Circuit Protection	Overload Protection	Size (W" x H" x D")	Weight (lbs.)	Pricing	
											1	5
211722	Mastech	HY3002-2	0-30/2; 0-30/2	120	115/230 ±10%	2-Digital LED (3.5)	Y	N	10.4 x 6.5 x 14.4	23	\$219.95	\$199.95
211705	Mastech	HY3002D-2	0-30/2; 0-30/2	120	115/230 ±10%	4-Digital LCD (3.5)	Y	N	10.4 x 6.5 x 14.4	23	239.95	219.95
211693	Mastech	HY3003D-2	0-30/3; 0-30/3	180	115/230 ±10%	4-Digital LCD (3.5)	Y	N	10.4 x 6.5 x 14.4	28	219.95	199.95
211731	Mastech	HY3003-2	0-30/3; 0-30/3	180	115/230 ±10%	2-Digital LED (3.5)	Y	N	10.4 x 6.5 x 14.4	28	299.95	269.95
301962	Mastech	HY5003-2	0-50/3; 0-50/3	300	115/230 ±10%	2-Digital LED (3.5)	Y	N	10.4 x 6.5 x 14.4	26	299.95	269.95
301947	Mastech	HY3005D-2	0-30/5; 0-30/5	300	115/230 ±10%	4-Digital LCD (3.5)	Y	N	10.4 x 6.5 x 14.4	26.5	299.95	269.95
211713	Mastech	HY3003-3	0-30/3; 0-30/3; 5/3	195	115/230 ±10%	2-Digital LED (3.5)	Y	N	10.4 x 6.5 x 14.4	29	299.95	269.95
211684	Mastech	HY3003D-3	0-30/3; 0-30/3; 5/3	195	115/230 ±10%	4-Digital LCD (3.5)	Y	N	10.4 x 6.5 x 14.4	29	299.95	269.95
301955	Mastech	HY3005D-3	0-30/5; 0-30/5; 5/3	195	115/230 ±10%	4-Digital LCD (3.5)	Y	N	10.4 x 6.5 x 14.4	29	379.95	339.95
197991	Extech	382213	0-30/3; 5/0.5; 12/0.5	98.5	110/120 @ 50-60 Hz	2-Digital LCD (3)	Y	Y	6 x 5.6 x 9.5	11	199.95	179.95
197982	Extech	382203	0-30/3; 5/0.5; 12/0.5	98.5	110/120 @ 50-60 Hz	2-Analog	Y	Y	6 x 5.6 x 9.5	11	169.95	159.95
1939618	Extech	382270	0-30/5; 0-30/5; 3-6/3; 8-15/1	334.5	110/120 @ 50-60 Hz*	4-Digital LED (4)	Y	Y	10.2 x 6.3 x 14.5	26.5	449.95	429.95
2112866	SKMI	LP-303-TP	0-30/3; 0-60/3; 0-30/6	450	115 @ 50Hz	4-Digital LED (3)	Y	Y	9.3 x 5.4 x 14.6	21.6	599.95	549.95

\* Selectable

## 13.8VDC Precision Regulated Power Supplies

- Heavy duty 5'8" 3-prong power cord
- Illuminated rocker switch
- Short-circuit protected
- Fuse protected
- Output mating terminals: see pg 120 for cigarette plugs & pg 149 for banana terminal plugs

\*Web Code: YEH

136581  
Banana terminal



138668  
Banana terminal (rear)



Part No.	Manufacturer	Mfr. Part No.	Power (W)	Output Volts @ Curr.	Input Voltage	Output Terminals	Size (L" x W" x H")	Wt. (lbs.)	1	5	25
136581	Samlex	RPS1207#	96.6	13.8VDC @ 7.0A	115VAC @ 60Hz	Banana terminals	9.3 x 5.7 x 4.0	8.5	\$69.95	\$59.95	\$54.95
138668	BenchPro	38-381	138.0	13.8VDC @ 10A	115VAC @ 60Hz	Banana terminals (rear)	7.0 x 6.6 x 4.3	10.0	59.95	53.95	48.95
138676	BenchPro	52-192012	276.0	13.8VDC @ 20A	115VAC @ 60Hz	Banana terminals	10.0 x 7.8 x 4.4	15.9	109.95	94.95	84.95

# P/N 136581 includes overheating protection

## 108-Watt Desktop Power Supply

- Load regulation: ±2%
- Input voltage: 88 132VAC/176-264VAC @ 47-63Hz (switch selectable)
- Ripple and noise max.: 120mVp-p
- Line regulation: ±5%
- Efficiency (typical): 81%
- Vol. adjustment range: 12-15VDC
- Front panel on/off switch and 3 color LED loading indicator
- Short-circuit/overload/ overvoltage/ overtemperature protection
- Back panel 3-prong AC receptacle and banana plugs
- Size: 5.9"W x 5.5"D x 3.3"H • Weight: 3.3 lbs.



Part No.	Mfr. Part No.	1	5
673230	ESP-120-13.5	\$49.95	\$44.95

## 80-Watt Switching Mode DC Power Supply

- Input voltage: 90-264VAC @ 47-63Hz
- Constant voltage and current
- Basic accuracy: ±1%
- Ripple and noise: <30mVp-p
- Line regulation: <4mV
- Load regulation: <20mV
- Remote sensing for accurate applied voltage at load point
- 3 ranges: 0 – 16.4V @ 0-5.1A; 0 – 27.6V @ 0 – 3.1A; 0 – 36.8V @ 0 – 2.3A
- Front and rear output terminals
- Size: 5.0"W x 2.1"D x 13.0"H • Weight: 4.2 lbs.

3 in 1



Part No.	Mfr. Part No.	1	5
1939600	382260	\$279.95	\$239.95

## ATX Power Supply Testers

- Tester for ATX power supply outputs to indicate pass or fail
- 24-pin ATX connector
- 4-pin HDD/ floppy drive connector, and 6-pin/8-pin P4 connector on the other side
- Tests +3.3V, ±5V, ±12V, +5VSB and PG



1928450: LED indicators  
2119988: LED indicators with on/off switch  
2115514: LCD display readout

Part No.	Product No.	Color	1	5
1928450	PST20	Blue	\$19.95	\$17.95
2119988	E77CECE38L	Black	21.95	19.95
2115514	E77CEBE80L	Black	24.95	22.49



**To Build An Inexpensive Voltage Probe with Tone and LED Outputs, go to: [www.Jameco.com/FMR7](http://www.Jameco.com/FMR7)**

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Test Leads, Cables, Plugs, Clips & Posts

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

<b>Pomona</b>	<b>KEYSTONE</b>	<b>JAMECO BenchPro</b>	<b>PROBE MASTER</b>
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## Test Leads and Cables

\* Web Code: TLC

Part No.	Manufacturer	Product No.	Description	Size (L")	1	10	25
2113877	Pomona	2249-C-36	BNC male to male cable, RG58C/U, 50Ω, 20 AWG, black	36	\$14.95	\$14.49	\$13.95
159880	Pomona	2249-C-60	BNC male to male cable, RG58C/U, 50Ω, 20 AWG, black	60	18.95	17.95	16.95
2113877	Pomona	3957	BNC male to Multi-Stacking banana plugs (2nd End)	1.55	14.49	13.95	13.49
176971	Pomona	4532-C-36	BNC M to Mini alligator clips w/strain relief, RG58C/U, 50Ω, 20AWG, blk	36	18.95	17.95	16.95
11384	BenchPro	GCA26-R	BNC male to Alligator clip, RG58/U, black	23	4.65	3.95	2.95
11464	BenchPro	05-A-078-R	BNC male to Mini-clip test lead, RG174A/U, black	39	3.95	3.59	3.29
11422	BenchPro	05-A-081-R	BNC male to Micro-clip test lead, RG174A/U, black	39	3.75	3.19	2.59
2097150	Pomona	5187-C-36	BNC male to MiniGrabber test leads, RG58C/U 50Ω, 20 AWG, black	36	18.95	17.95	16.95
176954	Pomona	5187-K-36	BNC male to MiniGrabber test leads, RG174/U 50Ω, 26 AWG, black	36	24.95	23.95	22.95
256832	BenchPro	CBB-069	BNC female to pigtail, 20 AWG, 2 wire, 1 black, 1 red	7	5.49	4.95	4.49
2097555	BenchPro	CBB-070	BNC male to pigtail, 20 AWG, 2 wire, 1 black, 1 red	9	5.49	4.95	4.49
2113869	Pomona	3788	BNC female MiniGrabber test clips (2nd end)	2.56	10.49	9.95	9.49
1945962	Various	TP-1	Protected probes w/ rt. angle banana screw-on alligator clips, 1 blk, 1 red	40	7.95	6.95	6.25
212222	Probe Master	8043S	Softie test probe leads, 10-pc. set, interchangeable tips, 18AWG, 1 blk, 1 red	48	26.95	25.95	24.95
174625	Probe Master	8150	Micro-tip test probe leads rt. angle (w/10 plunger type tips), 1 blk, 1 red	39	36.95	33.95	31.95
168516	BenchPro	GA-5010	Universal test lead kit w/ 12 interchangeable tips, 1 black, 1 red	36	8.95	6.95	5.95
155951	Pomona	5519A	Banana plug to rt. angle probe, insulated leads, 18 AWG 1 blk, 1 red	48	13.95	13.25	12.49
1814153	Pomona	1166-48-0	Multi-stacking banana plug to alligator clip, black	48	5.95	5.49	4.95
77738	BenchPro	GF19-R	Protected banana style multimeter test leads, 1 black, 1 red	40	5.95	5.49	4.95
77746	BenchPro	FC-15B-R	Standard banana style multimeter test probes, 1 black, 1 red	42	7.59	6.95	6.25
10444	BenchPro	GAL01	Alligator clip test leads, 24 AWG (19/36) 10-pc. assorted colors	15	4.95	4.49	3.95
159901	Pomona	B-24-02	Stackable banana patch cords, 18 AWG, 1 black, 1 red	24	9.95	8.95	8.29
159919	Pomona	B-36-02	Stackable banana patch cords, 18 AWG, 1 black, 1 red	36	10.95	9.95	8.95
77842	BenchPro	KLN-4-25/H-R	Stackable banana patch cords, 18 AWG, 2 ea. (blk,red,blue,white,yellow)	9.8	23.95	20.95	19.95
107423	BenchPro	GCA340-R	Stackable double banana plug to alligator clip test leads, 1 blk, 1 red	36	3.95	3.59	3.19
2113949	Pomona	72905-2	Micro SD Grabber test clip lead, attaches to 08mm/4mm female lead, red	3	5.49	4.95	4.69
159899	Pomona	3782-36-02	Mini-clip w/ stackable banana test leads, 20 AWG, 1 black, 1 red	36	11.49	10.95	10.49
21857	BenchPro	05-A-082-R	Mini-clip to stackable banana test leads, black	39	3.95	3.49	2.95
21865	BenchPro	05-A-079-R	Mini-clip to stackable banana test leads, red	39	3.95	3.49	2.95
135299	BenchPro	SF-207A-R	Mini-clip test leads, 26 AWG, 5 sets (blue, black, yellow, red, green)	14	10.95	9.95	8.95
156495	Pomona	5523-R	MiniGrabber™ test clip patch cord, 20 AWG 10-pc. assorted colors	24	39.95	37.95	36.95
2113906	Pomona	6341	Test probe set, precision electronic w/ complete set of 5 tips	39.4	35.95	34.95	33.95
2113914	Pomona	5953A	Test probes with retractable needle tips, right-angle for DMM	48	23.49	22.49	21.95
155985	Pomona	2708B	9 slot test lead holder, accepts RG213 & RG214 wire sizes (blue)	11	12.95	12.49	11.95
155977	Pomona	4408	10 slot test lead holder, accepts RG59 & RG108 wire sizes (black)	11	10.95	10.49	9.95
155969	Pomona	1508	14 slot test lead holder, accepts RG58 & RG142 wire sizes (orange)	11	11.95	11.49	10.95

## Test Clips, Plugs and Posts

Part No.	Manufacturer	Product No.	Description	Size (in.)	1	10	100
71240	BenchPro	GIP-003-R	Binding post, screw type, chassis mount 1 black, 1 red	1.0 L x .50 Dia.	\$1.29	\$1.15	\$ .99
77691	BenchPro	GIP-001-R	Binding post, screw type, chassis mount 1 black, 1 red	1.8 L x .50 Dia.	1.59	1.45	1.29
1582188	Keystone	6092	Banana jack, chassis mount, 0.182" solder tab, black	.937 L x .433 Dia.	1.39	1.29	1.19
1582170	Keystone	6091	Banana jack, chassis mount, 0.182" solder tab, red	.937 L x .433 Dia.	1.39	1.29	1.19
256779	BenchPro	R1-17-BLK-R	Panel mount tip jack; 1/4"-32 thread, black (10 pc. pkg)	.988 L x .29 Dia.	7.95	6.95	5.95
263864	BenchPro	R1-17-RED-R	Panel mount tip jack; 1/4"-32 thread, red (10 pc. pkg)	.988 L x .29 Dia.	7.95	6.95	5.95
125197	BenchPro	GBRR2-R	Screw mount double binding/banana post, black/red	1.6 L x 1.4 W	3.95	3.49	2.95
72195	BenchPro	GBP205-R	Set screw banana plug, 1 black, 1 red	1.6 L x .40 Dia.	1.59	1.45	1.29
137526	BenchPro	HP-2234P-R	Set screw banana plug, 1 black, 1 red	2.3 L x .30 Dia.	2.99	2.49	1.99
159855	Pomona	1325-02	Solderless stackable banana plug w/ set screw, 1 black, 1 red	1.55 L x .17 Dia.	3.19	2.95	2.75
159863	Pomona	1825-02	Solderless stackable banana plug w/ safety collar, 1 black, 1 red	4.59 L x .39 Dia.	3.19	2.95	2.75
125210	BenchPro	GBRR4-BLK-R	Solderless stackable double banana plug, w/ wire guide, black	1.59 L x 1.20 W	2.39	2.19	1.95

Continued on next page

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

## Test Clips, Plugs and Posts (Continued)

More images on previous page

★ Web Code: TLC

Part No.	Manufacturer	Product No.	Description	Size (in.)	* Order in multiples of 10		
					1	10	100
125218	BenchPro	GBRR4-RED-R	Solderless stackable double banana plug, w/ wire guide, red	1.59 L x 1.20 W	\$2.39	\$2.19	\$1.95
159927	Pomona	MDP-02	Solderless stackable dbl banana plug, w/ wire guide, red (set of 2)	1.55 L x 1.18 W	5.49	5.29	4.95
11440	BenchPro	03-701A-R	BNC female to standard double banana plug, black	2.03 L x 1.7 W	4.95	4.49	3.95
125225	BenchPro	GB2BR2	BNC male to standard double banana plug, black	2.21 L x 1.8 W	5.95	5.39	4.95
125233	BenchPro	GB1BN2	BNC female to double binding/banana posts, black	2.14 L x 1.8 W	4.95	4.45	3.95
99355	BenchPro	GB2BN2	BNC male to double binding/banana posts, black	2.35 L x 1.7 W	4.95	4.45	3.95
2113527	Fluke	AC283	Pincer clips, suregrip, opens to 5mm, 1 black, 1 red	8.0 L x .25 Dia.	29.95	28.95	27.95
114810	BenchPro	G2P004-R	Micro test clip, 1 red, 1 black	1.7 L	1.59	1.45	1.29
153163	BenchPro	SF-207-BL-R	Micro test clip, blue	1.7 L	.95	.85	.75
114818	BenchPro	G2P002-R	Mini test clip, 1 black, 1 red	3.5 L	2.25	1.95	1.75
684502	Pomona	6311	SMD micro grabber test clip, 8mm tip, 1 green, 1 yellow	1.5 L x .02 W	84.95	82.95	79.95
684545	Pomona	6313	SMD micro grabber test clip, 2mm tip, 1 green, 1 yellow	1.5 L x .02 W	69.95	67.95	65.95
248921	BenchPro	SF101CP-R	Mini alligator clip, solder/crimp (set of 2)	1.2 L x .30 W	.39	.36	.33
248939	BenchPro	SF-103CP-R	Mini alligator clip, solder/crimp (set of 2)	1.6 L x 0.3 Dia.	.55	.49	.45
256525	BenchPro	SF105B-R	Alligator clip, barrel/screw, 2" (set of 2)	2.0 L x .20 Dia.	.55	.49	.45
70991	BenchPro	GIP006-R	Insulated alligator clips, 1 black, 1 red	2.3 L x .50 W	.55	.49	.39
248962	BenchPro	SF-103SV-BK	Black insulator sleeve for PNs 248939 & 256525 (set of 2)	2.1 L x .20 Dia.	.35	.29	.25
248972	Various	SF103SV-RD-R	Red insulator sleeve for PNs 248939 & 256525 (set of 2)	2.1 L x .20 Dia.	.35	.29	.25
1581986	Keystone	5001	Looped color coded test point, mini, black	.3 L x .04 Dia.	*	.19	.15
1581994	Keystone	5002	Looped color coded test point, mini, white	.3 L x .04 Dia.	*	.19	.15
1582065	Keystone	5012	Looped color coded test point, white	.45 L x .063 Dia.	.29	.25	.19
2125683	IDI	SH-100-F-6.7-G	Spring contact probe terminal, gold (.250" travel)	1.31 L x .054 Dia.	1.75	1.49	1.25



### JAMECO ValuePro Test Lead Starter Kit

This kit includes our top selling test leads at a reduced price.

Includes one of each:

- BNC female-to-pigtail cable (P/N 256832)
- BNC male-to-pigtail cable (P/N 2097555)
- BNC male-to-alligator clip (P/N 11384)
- BNC male-to-mini clip (P/N 11464)
- BNC female-to-micro clip (P/N 11422)
- Mini clip to stackable banana test leads (P/N 21857)
- Double banana plug to alligator clip test leads (P/N 107423)
- Protected probes (P/N 21865)
- Protected multimeter test leads (P/N 1945962)
- Standard banana-style multimeter test leads (P/Ns 77738/77746)
- Anti-static wrist strap (P/N 34552)

Part No.	Product No.	1	5
2113236	Test Lead Starter kit	\$39.95	\$36.95

### 12-Pc Computer-Service Tool Kit

- Kit includes:
  - 2 nut drivers: 3/16", 1/4"
  - 3-claw parts holder
  - 1-pc hex key wrench
  - IC extractor
  - 4-pc screwdriver set
  - Tweezers
  - Clear components tube holder
- Size: 85"L x 6.0"W x 1.5"H • Weight: 1.1 lbs.

Part No.	Description	1	5	25
167206	12-piece tool kit	\$13.95	\$12.49	\$10.95

### 26-Piece SAE Hobby Tool Set

- 4-1/2" long nose pliers
- 4-1/2" diagonal cutting pliers
- #1 & #2 Phillips bits
- #1 & #2 pozi bits
- 3/16" & 1/4" slotted bits
- Hex to 1/4" driver adapter
- T-10, T-15, and T-20 Torx bits
- 3" extension bar for 1/4" drive
- 3 slotted and 3 screw driver precision set
- 3/16", 1/4", 11/32" and 3/8" sockets for 1/4" drive
- Size: 12.0"L x 9.0"W x 2.0"H • Weight: 1.5 lbs.

Part No.	Description	1	5	25
170069	26-pc. SAE tool set	\$17.95	\$15.95	\$12.95

### 40-Piece Electronic Tech Tool Kit

- Kit includes:
  - Wire cutters/ stripper
  - Adapter bit for sockets
  - Pocket clip screwdriver
  - 10-pc screwdriver set
  - T10-T25 reversible
  - Torx screwdriver bits
  - Potentiometer alignment tools
  - 3/16"-1/2" S.A.E. nut driver sockets
  - 6mm-12mm metric nut driver sockets
  - Slotted and Phillips screwdriver bits
  - Extra long 3-claw parts holder
  - IC inserter with pin straightener
  - IC extractor
- Size: 9.5"L x 6.8"W x 1.4"H • Weight: 1.7 lbs.

Part No.	Description	1	5	25
119183	40-piece tool kit	\$21.95	\$19.95	\$17.95

### 51-Piece Tech Tool Kit

- Kit includes:
  - Storage box
  - 4 pliers
  - Tweezers
  - Scissors
  - 7-piece hex key set
  - PVC insulated tape
  - Multimeter
  - 10-piece screwdriver set
  - Utility knife (3 blades)
  - 2 Needle files
  - 3-piece soldering aid kit
  - Desoldering pump
  - 6-piece electronic screwdriver set
  - Soldering iron with stand and sponge
- Case features removable pallets, a combination lock and a cushioned black plastic handle
- Size: 12.5"L x 17.5"W x 3.5"H • Weight: 10.4 lbs.

Part No.	Description	1	5
26681	51-piece tool kit	\$129.95	\$119.95

**Did you find what you were looking for? If not  
Call us at 1-800-831-4242.**

### 52-Piece Master Electronics Tool Kit

Simply every tool needed for field repair or installation. All in a handsome lockable case, with room for spare parts or special equipment.

- Kit includes:
  - 7 pliers
  - Storage box
  - Wrench
  - 3-piece soldering aid kit
  - Soldering iron with stand and sponge
  - 10-piece screwdriver set
  - Brush
  - 6-piece screwdriver set
  - Desolder pump
  - Testing screwdriver
  - IC extractor
  - 7-piece hex set
  - 6-piece wrench set
  - PVC insulated tape
  - Solder core
  - Heat sink
  - Measuring tape
  - Desolder wick
  - Crimping tool
  - Oil can
  - 5-piece file set
  - Alignment tool
  - Flashlight
  - 3-prong holder
  - Hammer
  - Scissors
  - Part tube
  - Utility knife (3 blades)
  - Tweezers
- Carrying case has two removable pallets, adjustable compartments, and combination locks
- Size: 18.0"W x 13.0"D x 4.0"H • Weight: 16.0 lbs.

Part No.	Description	1	5
218245	52-piece electronic tool kit	\$134.95	\$124.95

★ For Tool Kits — Enter Web Code CAA

### JAMECO BenchPro Aluminum Tool Case

Made of lightweight aluminum, this tool case is designed to take rough field use.

- Size: 19.0"L x 14.0"W x 6.0"H

Includes: Tool pallet, egg carton foam lid and 2.5" thick pre-cut foam bottom

Part No.	Description	1	5
261877	Tool/equipment case	\$49.95	\$44.95

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Tool Kits, Wrenches & Cable Strippers

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE



## 69-Piece Tech Service Tool Kit

Kit includes:

- Storage box
- 7 pliers
- Tweezers
- Spring hook
- 3-piece soldering aid kit
- Desoldering pump
- 3-piece alignment tool set
- Diagonal cutter
- Soldering iron
- Forceps
- 9-piece screwdriver set
- Wire stripper
- 5-piece file set
- Flashlight
- 3-prong holder
- PVC insulated tape
- Heat sink
- Measuring tape
- 6-piece electronic screwdriver set
- 40-piece socket & screwdriver set
- 10-piece electronic wrench set

Size: 18.5"L x 13.8"W x 6.7"H • Weight: 22.8 lbs.

Part No.	Description	1	5
149024	69-piece tool kit	\$299.95	\$269.95



## Cabling Technician's Tool Belt Kit

Kit Includes:

- 66/110 blade punch down tool
- Probe pick and spudger
- Cable stripper
- Electrician's scissors
- Splicer's knife
- Mini screwdriver
- High quality nylon belt pouch

Part No.	Mfr.	Part No.	1	5	25
2112250	TTK-5200		\$34.95	\$31.95	\$28.95



## Automatic Wire Strippers

Includes:

- Spring loaded handle
- Size: 7.0"L x 2.5"W
- Weight: 0.8 oz.
- Provide a clean strip without damaging conductor

Part No.	Mfr.	Description	1	5	25
2112284	BenchPro	10-24 AWG	\$8.95	\$7.95	\$6.95
175098	BenchPro	8-22 AWG	16.95	15.49	13.95



## Flat Cable Cutter

Includes:

- Spring loaded handle
- Blade lock for safe storage
- Provides clean cut
- Size: 6.5" L x 2.0"W
- Weight: 5.6 oz.

Part No.	Description	1	5	25
2112241	Flat cable cutter	\$3.95	\$3.69	\$3.39



## Heavy Duty Scissors

Includes:

- Spring loaded handle
- Blade lock for safe storage
- Ergonomic handle
- Stainless steel tongs
- Suitable for fiber optic cable

Part No.	Description	1	5	25
2112313	Heavy duty scissors	\$4.25	\$3.95	\$3.69



## UTP/STP Wire Stripper

Includes:

- Quickly strips insulation without damaging wire
- Strips shielded and unshielded
- Strip 24 to 3 AWG (.5 - 6.2mm)
- Twisted pair cable
- Size: 3.5"L x 1.25"W

Part No.	Description	1	5	25
2112292	UTP/STP stripper	\$2.95	\$2.49	\$1.95



## Rotary Coax Cable Strippers

2 and 3 Blade

159119 (3 Blade):

- 2 settings RG58/59/62
- For cable sizes 4-10mm
- Size: 4.2"L x 1.3"W
- Color: black

159185 (2 Blades):

- 4 settings RG58/59/62/174
- For cable sizes 4-12mm
- Size: 3.9"L x 0.7"W • Color: gray

Includes: Hex key wrench for adjusting blade

Part No.	Mfr.	Part No.	1	5	25
159119	HT312B (3 blade)		\$9.95	\$9.49	\$8.95
159185	HT332D (2 blade)		12.95	11.95	10.95



## 5" Wire Cutter/Strippers

Includes:

- Insulated handles
- Spring return
- Tempered steel cutting edge
- Size: 5.0"L x 3.0"W
- One-year warranty

78992: 10-30 AWG (screw adjustable)

215889: 10-24 AWG (dial to adjust for wire gauge)

Part No.	Product No.	1	5	25	100
78992	HT108	\$4.49	\$3.95	\$3.49	\$2.95
215889	JE-2022C	4.49	3.95	3.69	3.29



\*Cutters/Strippers — Enter Web Code BAK



## 5" Wire Cutter/Stripper

Includes:

- Strips and cuts 20-24 AWG wires
- Spring loaded for easy use
- Cutter angled at 45° for use in tight places
- Insulated grips
- Size: 5.0"L x 3.0"W

Part No.	Mfr.	Part No.	1	5	25	100
159274	HT1091		\$4.95	\$4.49	\$3.95	\$3.49



## 6" Wire Cutter/Strippers

Includes:

- Plier nose
- Cushioned grips
- Wire size markings, in AWG and mm
- Size: 6.0"L x 2.0"W • Color: yellow

161226: Premium

- 12-20 AWG stranded;
- 10-18 AWG solid

161218: Standard

- 16-26 AWG stranded;
- 14-24 AWG solid

Part No.	Mfr.	Part No.	1	5
161226	ID45-125		\$15.95	\$14.95
161218	ID45-121		14.49	12.95



## 6.6" Wire Stripper

Includes:

- Wire stripper, cutter, steel wire cutter, and wire loop
- Scale: AWG and mm
- Strips and cuts wires from 20-30 AWG
- Size: 6.6"L x 2.0"W

Part No.	Mfr.	Part No.	1	5	25
159291	HT5023		\$9.95	\$8.95	\$7.95



## 7-in-1 Wire-Handling Tools

Includes:

- Wire stripper, wire cutter, steel wire cutter, pliers and wire loop
- Solderless crimping tool
- Scale: mm and inch
- Size: 6.6"L x 3.0"W

Part No.	Mfr.	Part No.	Description	1	5	25
18797	HT1041		10-18AWG	\$4.95	\$4.49	\$3.95
127862	HT1042		16-26AWG	5.95	5.49	4.95
127871	HT1043		22-30AWG	5.95	5.49	4.95



For all Your Wire and Cable needs see pages 53-56



## 100-Piece Professional Electronics Tool Kit

Kit includes:

- Soldering iron
- 12 screwdrivers
- 7-piece hex key set
- Extractor
- 4 Pliers
- Adjustable wrench
- Crimper/Stripper
- 6-piece screwdriver set
- 3-piece soldering aid kit
- Flashlight
- Desoldering pump
- Multimeter
- Tweezers
- 5-piece file set
- 10-piece wrench set
- Voltage tester
- 2 bottles cleaning liquid
- Blade cutters
- Cordless screwdriver kit (bits included)
- Aluminum case features removable pallets, surface-type locks, and black plastic handle
- Size: 18.0"L x 14.0"W x 6.0"H • Weight: 15.5 lbs.

Part No.	Description	1	5
242851	100-piece tool kit	\$199.95	\$159.95



Electronic Starter Kit see page 140

## R<sup>2</sup> RapidRench Adjustable Ratcheting Socket Wrench

Includes:

- Fits hundreds of SAE and metric fasteners
- Tighten or loosen with a flip of a switch
- Dial adjusts jaws to the exact size of the fastener
- Jaw capacity: 1/4" to 7/8" (6.35mm to 22.2mm)
- Rubberized comfort grip for extra control

Part No.	Mfr.	Part No.	1	5
1943131	FR28SWMP		\$29.95	\$26.95



\*Wrenches — Enter Web Code WEL

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

## Hand Tools for Mini-Fit™ Jr.



304928: Accepts wire range from 14-24 AWG

Part No.	Mfr. Part No.	Description	1	5
304928	63811-1000	Crimp tool	\$49.95	\$44.95
304936	11-03-0044	Extraction tool	19.95	18.95

## Hex Crimp Tool

Use with RG-58 and RG-59  
Connectors with up to a 3/8" Ferrule

- 1.7mm standard crimp for crimping center conductor on BNC and TNC connectors; up to 3/8" ferrule
- Weight: 1.5 lbs.



Part No.	Description	1	5
261745	Hex crimp tool (3/8")	\$17.95	\$15.95

## Metal Modular Connector Crimping Tool

Crimps 6P and 8P Plugs (6P2C, 6P4C, 6P6C, 8P2C, 8P4C, 8P6C, 8P8C)

- Cable stripper/wire cutter
- Size: 8.0"L
- Weight: 1.8lbs.



Part No.	Description	1	5	25
114527	RJ11/RJ45	\$22.95	\$19.95	\$17.95

## Ratcheted Modular Connector Crimping Tool

Crimps RJ45 (8P8C) and RJ11/12 (6P6C)

- Insulated grip
- Ratcheted type
- Metal • 7.5"L
- Weight: 0.7 lbs.



Part No.	Description	1	5	25
159312	RJ45/11/12	\$22.95	\$19.95	\$17.95

## Modular Cut/Crimp/Strip Tools

For RJ11 (6P) and RJ45 (8P) Modular Plugs

- Repeatable crimp action for consistent high-quality connections



Part No.	Mfr.	Product No.	1	5
174684		174676		
174684		• Size: 8.0"L x 2.0"W • Weight: 0.8 lbs.		
174676		• Size: 8.5"L x 2.2"W • Weight: 1.2 lbs.		
174684	Various	TTK071	\$21.95	\$19.95
174676	Various	TTK070	23.95	21.95

\*Crimping Tools Online — Enter Web Code GBU

## Xcelite®

## General Purpose Pliers and Cutters

Needle Nose, Diagonal Pliers and Cutters

- Cushion grips • General purpose use • Positive gripping of wire & subminiature components
- Narrow and fine tips provide increased clearance and allows use in restricted areas



### Needle Nose Pliers

Part No.	Mfr. Part No.	Description	1	5
217891	L4	4" mini needle nose	\$17.95	\$16.95
217998	LN54G	5" thin long nose	18.95	17.49
146721	NN7776V	5" long nose flat	19.95	18.95

### Shearcutter Pliers Set

Part No.	Mfr. Part No.	Description	1	5
152055	S2K	5.6" plier/5.2" cutter	\$16.95	\$15.95

\*Pliers Online — Enter Web Code XPC

### Diagonal Cutters

Part No.	Mfr. Part No.	Description	1	5
217921	MS54J	4" oval head-flush	\$17.95	\$16.95
1536974	S475NJS	4" relieved head-flush	16.95	15.95
217904	MS549J	4" tapered head-flush	17.95	16.95
217867	MS545J	4" slim-line tapered-flush	16.95	15.95
146739	MS54V	4" diagonal semi-flush	16.95	15.95

### Micro Series Wire Cutter

Part No.	Mfr. Part No.	Description	1	5
146712	170M	6" cutter flush	\$6.49	\$5.95

## 6-Pc. Steel Mini Plier & Cutter Set

- Spring return • Insulated handles

Includes:

- (1) 4.5"L diagonal cutting
- (1) 4.5"L end cutting plier
- (1) 5"L long nose plier
- (1) 5"L flat nose plier
- (1) 5"L bent nose plier
- (1) 5.75"L needle nose plier



Part No.	Description	Wt. (lbs.)	1	5
2120321	6-pcs set	0.7	\$14.95	\$13.49

## Half-Round Long Nose Pliers

- Drop forged steel
- Heat treated
- Spring return action
- Vinyl grips
- Length: 4.5"
- Knurled jaws



Part No.	Description	1	5	25
177608	Half-round pliers	\$4.95	\$4.49	\$3.95

## Precision 5-Piece Stainless Steel Pliers Set



- Spring return • Insulated handles

Includes: One 3.5"L micro cutting nippers and one each 4"L micro round nose pliers, long nose pliers, flat nose pliers and bent nose pliers

Part No.	Description	Wt. (lbs.)	1	5	25
73121	5-piece set	0.6	\$17.95	\$15.95	\$13.95

## Cutting Pliers

- Side and flush cutting
- 179902: • Forged steel
- Cushion grip
- 2123320: • Carbon steel • Vinyl grip



Part No.	Description	1	10	50
179902	4" leaf spring	\$3.95	\$3.59	\$3.29
2123320	4.5" spring return	4.95	4.49	3.95

## 5.3" Flat and Half-Round Long Nose Pliers

- Stainless steel • Spring return
- Durable rubber handles
- 5.3" length w/ 1.4" plier nose

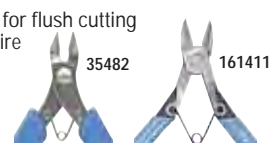


35474/35491: Knurled jaws  
195531: Smooth jaws

Part No.	Description	1	10	50	250
195531	Flat long nose	\$3.95	\$3.59	\$3.29	\$2.95
35474	Flat long nose	4.95	4.49	3.95	3.49
35491	Half round	4.95	4.49	3.95	3.49

## Diagonal Wire Cutters

- Jaws are designed for flush cutting
- Cuts component wire up to 1.2mm thick
- 0.5" cutting blade
- 35482: 4.3" Cutter
- Stainless steel
- Durable rubber handles



\*Web Code: BAK

Part No.	Size	1	10	50
35482	4.3"L x 2.1"W	\$6.95	\$6.49	\$5.95
161411	5.0"L x 1.8"W	6.95	6.49	5.95

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Pliers, Cutters, Drill Bits, Mini-Drill & Stand

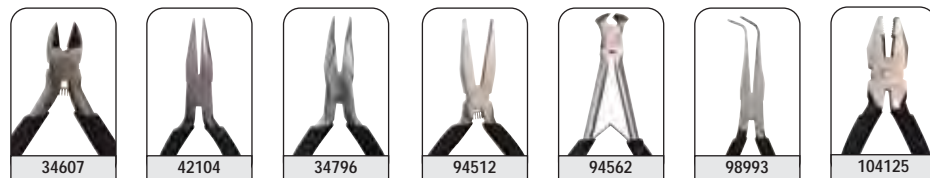
4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

## EXIMCORP

### Pliers and Cutters

#### Diagonal, Needle Nose, Nipper, Square, Bent Nose, Sportsmen & Electrician Pliers

- General purpose for picking-up, cutting and wire forming
- Forged steel
- Heat treated
- Insulated grips
- Blister packaged



#### Diagonal Flush Cutters

Part No.	Description	1	5	25
34622	4.5" spring loaded	\$3.95	\$3.69	\$3.39
34607	5" spring loaded	4.95	4.49	3.95
34658	5.25" heavy duty*	5.49	4.95	4.49

#### Needle Oval Nose Pliers with Serrated Jaws

Part No.	Description	1	5	25
42104	5.25" standard*	\$5.95	\$5.49	\$4.95

#### Needle Oval Nose Cutters with Serrated Jaws

Part No.	Description	1	5	25
34691	4.75" spring loaded	\$3.95	\$3.69	\$3.39
34712	5.25" spring loaded*	5.49	4.95	4.49

#### Bent Oval Nose Pliers with Serrated Jaws

Part No.	Description	1	5	25
34796	5" standard bend	\$3.95	\$3.69	\$3.39
34826	6" slim spring loaded	4.95	4.49	3.95
34851	7" standard bend*	4.95	4.49	3.95

#### Bent Oval Nose Cutters with Serrated Jaws

Part No.	Description	1	5	25
34746	5.25" standard bend	\$3.95	\$3.69	\$3.39
34762	7" standard bend*	4.95	4.49	3.95

#### Square Nose Cutters with Serrated Jaws

Part No.	Description	1	5	25
94512	5.5" standard w/o cutter	\$4.95	\$4.49	\$3.95
94530	4.75" spring loaded w/ cutter	3.95	3.69	3.39
94546	5.25" standard straight*	4.95	4.49	3.95

#### Nipper Nose Pliers Spring Loaded

Part No.	Description	1	5	25
94554	4.25" standard*	\$3.95	\$3.69	\$3.39
94562	5.25" slim	5.95	5.49	4.95

#### Sportsmen's Square Straight & Bent Nose Pliers

Part No.	Description	1	5	25
98976	6.25" standard straight	\$4.95	\$4.49	\$3.95
104257	8" standard straight*	5.95	4.95	4.49
98985	5.25" standard bent	5.95	5.49	4.95
98993	7.5" standard bent*	6.95	6.25	5.59

#### Electrician's Pliers with Serrated Jaws

Part No.	Description	1	5	25
104125	6.25" standard w/ cutter*	\$5.95	\$5.49	\$4.95
104249	8.25" standard w/ cutter	5.95	4.95	4.49

\* Part of kit 2100161, above right

\* Pliers Online — Enter Web Code XPC

## JAMECO BenchPro Mini-Drill and Stand

This Mini-Drill is excellent for drilling through circuit boards and protoboards. The drill comes with an array of drilling, grinding and sanding attachments. Drill stand is designed to function like a drill press.



Part No.	Description	Wt. (lbs.)	1	5	25
26702	GTT-103A drill	0.8	\$34.95	\$31.95	\$27.95
26711	GTT-104 stand	1.8	25.95	23.95	21.95

## PC Board Drill Bits

- Shaft diameter: .125"
- Use for drilling holes in glass PC boards

Part No.	Size	Dia.	1	10	100
1919537	1/8	.125"	\$ .75	\$ .59	\$ .45
1919588	31	.120"	.75	.59	.45
1919300	32	.116"	.75	.59	.45
1919609	33	.113"	.75	.59	.45
1919553	35	.110"	.75	.59	.45
1919570	38	.102"	.75	.59	.45
1919502	45	.082"	.75	.59	.45
1919596	46	.081"	.75	.59	.45
1919561	48	.076"	.75	.59	.45
16580	59	.040"	1.75	1.49	.99
16619	75	.021"	1.75	1.49	.99

## JAMECO BenchPro Mini-Drill Bit Kit

This kit is excellent for drilling through circuit and protoboards precisely.

- Mini drill (26702)
- Mini drill stand (26711)
- Drill bit sizes 48 & 59 (1919561/16580)



Part No.	Description	Price
2113252	Mini-drill bit kit	\$54.95

## JAMECO BenchPro 34-Piece Security Bit Set

These bits match the security fasteners commonly used in today's electronic products.

Includes: Torx bits: #6, #8 and #10; Tri-wing bits: #1, #2, #3 and #4; Security hex bits: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32" 3/16" and 1/4"; Security Torx bits: T8, T10, T15, T20, T25, T27, T30, T35 and T40; Spanner bits: 4, 6, 8 and 10mm; Phillips bits: #1, #2, #3 and #4; and 60mm magnetic bit extension that fits 1/4" hex driver

Part No.	Description	1	10
223829	32-piece security bit set	\$10.95	\$9.95

Our website offers thousands of data sheets and photos to assist you in finding the products you need.

## Pliers & Cutters Tool Kit

Ten (10) most popular tools in a kit. See (\*) to the left

- 1 each



## EXIMCORP

Part No.	Description	1	5	25
2100161	10 pliers and cutters	\$24.95	\$22.49	\$19.95

## Variable High-Speed Rotary Tool Kit

- Speed: 6000-32000rpm
- Motor power: 130W
- Collet capacity: 3.2mm
- 28 pcs. sanding/grinding bit set
- Case included, 2.2 lbs.
- Variable speed selector



Part No.	Description	1	5
2118977	Variable high-speed rotary tool kit	\$34.95	\$29.95

## High-Speed Steel Step Drill Bit

Drill multiple holes in thin material with the same bit, faster and easier. Each bit does the work of many drill bit sizes. You can drill holes in most materials such as plastic, metal, and wood up to 1/8" thick.

- Shank size: 3/8"
- 2.4" long



Part No.	Description	1	10	50
229657	3/16" - 7/8" 13-step	\$14.95	\$13.49	\$11.95

\* Drill Bits — Enter Web Code NEJ

## JAMECO BenchPro Pocket Screwdriver

### Phillips & Flat head

\* Web Code: CAQ

- Pen clip for pocket storage



Part No.	Description	1	10	100
127271	6" long pocket screwdriver	\$1.95	\$1.59	\$1.39

## Impact Punch-Down Tools

- Reversible clip-in blade
- Adjustable (HI-LO) spring-loaded impact mechanism
- Storage bin on handle for spare blade

\* Web Code: PBC

### 175071: Tool with blade

- For 66-type terminals
- Size: 5.2"L x 1.5"W x 1.0"H



### 324014: Tool with blade

- For 110-type terminals
- Size: 5.8"L x 1.7"W x 1.2"H



### 175089: Punch-down blade 110-type terminals

### 324021: Punch-down blade 66-type terminals

Part No.	Description	1	5
175071	Tool with 66 blade	\$29.95	\$27.95
324014	Tool with 110 blade	29.95	27.95
175089	Punch-down blade 110	9.95	8.95
324021	Punch-down blade 66	7.95	6.95

## HNibbling Tool

- Perfect for cutting, trimming, or notching sheet metal up to 18 AWG
- Time-saver when working on prototyping, chassis, and circuit boards
- Minimum .375" hole required
- Size: 7.8"L



Part No.	Mfr. P/N	Description	1	10
18810	HT204	Nibbling tool	\$7.95	\$6.95
29331	HT204B	Replacement bit	3.95	3.55

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.





## Ball-End, Hex Key and Screwdriver Sets

**Bondhus/Felo Products:** Inferior tools cost money when something goes wrong. The cost of removing a stripped or broken screw head from a tight location, or replacing a damaged tool exceeds the cost of purchasing a superior tool in the first place.

- Material: Protanium high torque steel
- Ball-end inserts quickly into screw head up to 250
- Ergonomically designed anti roll handle
- Bondhus: Made in USA; Felo: Made in Germany
- Delivers perfect balance between tip strength and working angle
- Life time warranty

**\*Web Code: CAQ**

Part No.	Mfr.	Description	1	10
34041	BenchPro	6-pc. precision screwdriver set (slotted – 3/64", 1/16", 5/64", 5/32", 1/8", 9/64")	\$2.95	\$2.59
34059	BenchPro	6-pc. precision screwdriver set (Phillips #0 – 1/16", 5/64", 3/32", #1 – 1/8", 9/64")	2.95	2.59
2096229	Felo	6-pc. screwdriver set (slotted – 9/64"; 5/32"; 7/32"; 1/4"; Phillips – #1; #2)	34.95	31.95
99451	BenchPro	6-pc. long neck screwdriver set (slotted – (Dia. x L) 3/32" x 6 5/8", 1/8" x 7 5/8", 5/32" x 9 5/8", Phillips – #00 x 6 5/8"L, #0 x 7 5/8"L, #1 x 9 5/8")	8.95	7.95
226106	BenchPro	6-pc. precision 50 mm torx screwdriver set (Torx – T5, T6, torx hex – T7, T8, T9, T10)	13.95	11.95
2096350	Bondhus	8-pc. ball-end screwdriver set (.05", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32")	19.95	17.95
2096173	Bondhus	12-pc. ball-end hex key set (.05"; 1/16"; 5/64"; 3/32"; 7/64"; 1/8"; 9/64"; 5/32"; 3/16"; 7/32"; 1/4"; 5/16"	13.95	11.49
261999	BenchPro	7-pc. 1000V insulated magnetic screwdriver set (slotted – 2.5mm)	15.95	14.49
99565	BenchPro	6-pc. screwdriver & plier set (slotted – (Dia. x L) 0.09" x 7 5/8", 0.312" x 9 1/2", Phillips – #2 0.09" x 7 5/8", #0 0.12" x 9 1/2", pliers – micro nipper cutter, micro flat nose pliers)	12.95	11.95
261842	BenchPro	7-pc. SAE nut driver set w/ colored handles (sizes: 3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2")	6.95	5.95
226094	BenchPro	11-pc. magnetic AWL prec. screwdriver set (slotted – .9, 1.2, 1.4, 1.8, 2.4, 3 mm, Phillips – #00, #0, #1)	3.95	2.95
2119005	BenchPro	8-pc. ratcheting screwdriver bit set (3-slotted, 3 phillips, 1 square)	4.95	4.49
2125077	BenchPro	8-pc. ratcheting screwdriver bit set (3-slotted, 3 phillips, 1 square) 10 pack	39.95	34.95



## Automatic Center-Punch Tool

### Adjustable

- Precision instrument
- Alloy steel point
- Knurled steel body
- Size: 5.0"L x 0.5"Dia.

Part No.	Description	1	10
160282	Center punch tool	\$5.95	\$5.49

## 30 AWG Wire Wrap/Strip Tools

Recommended for use on 0.025" (0.63mm) square posts on 0.100" (2.54mm) center grids. The first 1-1/2 loop on the modified tool has wire insulation while all loops on a regular tool have bare wires.

- Knurled handle for easy grip
- 5" long

Part No.	Description	1	5
242801	Tool (regular)	\$24.95	\$22.95
242798	Tool (modified)	24.95	22.95
242819	Replacement tip (242798)	7.95	7.29

## Deluxe Precision Knife Set

- Three different knife handles – fine work, medium and heavy duty power grip
- Size: 6.3"L x 2.8"W x 1.4"H

**Includes:** 13 types of blades

Part No.	Description	1	10	100
72768	13 blade knife set	\$8.95	\$7.95	\$6.95

## 5" Steel Hemostats

- Grade 410 A.I.S.I. stainless steel
- Three locking positions

Part No.	Cross Ref. No.	Description	1	10	100
115107	HEM01	Straight	\$3.95	\$2.95	\$2.49
115115	HEM02	Curved	3.95	2.95	2.49



## Strip-Wrap-Unwrap Tools

- Tool tip made of tempered steel
- Spring steel cutter
- Use with 30 AWG wire on .025" square posts
- No solder necessary, see pg 53 for wire
- Wrap 1 to 2 turns of insulated portion of wire for secure connections
- 4.5" long

Part No.	Product No.	1	5
34585	HSM30 (Modified)	\$29.95	\$26.95
236785	HSR30 (Regular)	29.95	26.95

**\*Web Code: BBC**

## 1/4-Watt & 1/2-Watt Resistor & Capacitor Lead Forming Tool

- Watt size indicates appropriate package size
- Bends lead length in 0.05" increments
- Lead spacing: 1/4W: 0.4"-1.5"; 1/2W: 0.5"-1.5"

Part No.	Description	Size (L" x W")	1	10
106884	1/4W & 1/2W	5.4 x 1.5	\$4.95	\$4.49

## IC Pin Straightener

Straighten bent pins safely and easily w/ Jameco's IC pin straightener.

- Straightens 8/14/16/18/20/24/28/40/42-pin ICs
- Materials: black plastic
- Size: 3.3"L x 1.5"W x 0.4"H

**Includes:** Ground terminal

Part No.	Description	1	10	100
99363	IC straightener	\$7.95	\$6.95	\$5.95

## 24" Joubert Bungee Cord

- 2.75" steel hook height
- 0.81" steel hook opening
- 0.16" thick PVC coated steel hook
- Blue cord with black coated hook
- Braided jacket cover
- Stretches easily to 48"

Part No.	Product No.	1	10	100
2081668	JBC24	\$ .75	\$ .69	\$ .59

**\*Calipers — Enter Web Code PAQ**

## Metal Dial Calipers

### Choose Metric or Inches

- Measures outside, inside & depth
- Accurate measurements every time
- Easy-to-read dial gauge
- Materials: metal
- Color: silver
- Length: 6" (150mm)

**Includes:** Fitted plastic storage case

Part No.	Description (min. reading)	1	5	25
116134	Metric (.02 mm)	\$25.95	\$23.95	\$21.95
116126	Inches (.001 inch)	25.95	23.95	21.95
684449	Metric/Inches	27.95	25.95	23.95

## Digital Display Caliper

### Metric and Inches

- Hardened stainless steel
- Display: inches to 0.001; mm to 0.01
- Instructions for making internal, external, depth & step measurements
- Calipers measure to 6 inches/150mm
- One-year warranty

**Includes:** Fitted case and 1.5V silver oxide battery (replacement battery, P/N 140783, pg 137)

Part No.	Description	1	5
127482	Digital display caliper	\$39.95	\$36.95

## Precision Caliper (Micrometer)

- Precision measur. to 0.0001"
- Measure 0 to 1"
- Sturdy steel construction

Part No.	Description	Weight	1	5
2118969	Micrometer	7.4 oz.	\$19.95	\$17.95

## T-Handle Reamer Tool

**Excellent for aluminum chassis work**

- For enlarging starter holes on panel mount components from 1/8" to 1/2" diameter
- T-handle for easy rotation of tool
- Handle: 3.3" long, tool: 5.3" long

Part No.	Description	1	10
151750	T-handle reamer	\$7.95	\$6.95

**\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above**

# Tweezers, Manifying Lamps & Anti-Static Products

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

## 4-Piece Steel Tweezer Set



- 4 styles of stainless steel tweezers, one self-locking
- Ideal for picking up small components in hard-to-reach places

Part No.	Description	1	10	100
10735	4-piece tweezer set	\$5.95	\$5.49	\$4.95

\*Tweezers Online — Enter Web Code FAA

## Tweezers

- 252929: Straight round, fine-point tip, stainless steel  
 253092: Curved fine-point tip  
 252938: Self-closing reverse-action tweezers; medium point tip; stainless steel  
 253113: Fine-point tip, insulated, anti-static  
 252912: Straight fine-point tip, tapered

Part No.	Length	Photo	1	10	100
252929	4.75"	1	\$2.95	\$2.49	\$1.95
253092	4.6"	2	2.95	2.49	1.95
252938	4.30"	2	1.95	1.75	1.59
253113	4.75"	3	2.95	2.49	1.95
252912	4.75"	4	2.95	2.49	1.95

## 4-Pc. Conductive SMD Tweezer Set



- 4 types of tweezers: fine point, flat head for 4mm SMD chip device, flat head for 8mm SMD chip device, sharp angled tip
- Each is 4.5" long

Part No.	Description	1	10
172638	4-piece tweezer set	\$9.95	\$8.95

## Vacuum Tweezers

Pick & place small parts of all kinds: glass slides, coins, optics, SMDs, film, etc.

- Size: 2.9" x 0.6"W
- One-year warranty
- Includes: 5 pads sizes 0.14" to 0.4"; 5 straight tips and 2 pieces 45° angle tips

Part No.	Description	1	5
88268	Vacuum pick & place kit	\$49.95	\$44.95

## PLCC & DIP IC Extractors

- Size: 4.0"L x 2.0"W

Part No.	Mfr. Part No.	Description	1	10	100
16766	HT103B	PLCC	\$3.95	\$3.49	\$2.95
16838	HT103A	DIP	1.65	1.49	1.25

## Anti-Static Wrist Strap

- Comfortable, adjustable black Velcro wrist strap
- The coiled grounding cord has banana plug and alligator clips
- Extended cord: 9' long

Includes: 1MΩ resistor for added safety

Part No.	Description	1	10	100
34552	Wrist strap	\$6.95	\$6.49	\$5.95

## Anti-Static Heel Strap

- Discharges static without restricting your mobility
- Ground strap: 15.5"L

Part No.	Description	1	10	100
100328	Heel strap	\$5.95	\$5.49	\$4.95

## Anti-Static Work Mats

Make your work environment safe from static discharge! These mats are made of attractive semi-conductive vinyl that provide adequate discharging, yet will not short leads or pins.

Part No.	Dimensions	Wt. (lbs.)	1	10	100
10576	11.3" x 22"	0.7	\$8.95	\$7.95	\$6.95
10584	19.5" x 23.5"	1.1	13.95	12.49	10.95
236541	23.5" x 27.5"	1.4	25.95	22.95	19.95

\*Anti-Static Online — Enter Web Code XAA

## Field Service Static Kit

This mat folds easily to fit into a field service bag.

- 4 pocket for ESD safe storage
- 10' ground strap and 6' wrist strap share on one ground point
- Size: 2' x 3'

Part No.	Mfr. Part No.	1	5	25
2113720	8PK-AS07-1	\$15.95	\$14.95	\$13.95

## Conductive Anti-Static Bags and Foam

Don't get zapped!

Protect your investment with these inexpensive bags and ensure a safe work area with our conductive anti-static foam.

Part No.	Description	1	10	100
249519	4" x 6" anti-static bags	*	\$ .15	\$ .10
249527	5" x 7" anti-static bags	*	.19	.12
78650	8" x 10" anti-static bags	.49	.39	.29
13864	Anti-static foam	11.95	10.95	9.95

## 22"L Anti-Static Plastic DIP IC Storage Rails & Rubber Rail Stops

Part No.	Description	1	10	100
249519	4" x 6" anti-static bags	*	\$ .15	\$ .10
249527	5" x 7" anti-static bags	*	.19	.12
78650	8" x 10" anti-static bags	.49	.39	.29
13864	Anti-static foam	11.95	10.95	9.95

29524 (ICs not included)  
 29516: .300" rail fits 8, 14, 16, 18, 20 and 22-pin ICs  
 29524: .600" rail fits 24, 28, 36 and 40-pin ICs  
 29583: Rubber stops used to plug plastic rail ends

Part No.	Cross Ref. No.	Description	1	10	100
29516	RIC20	.300"W rail	\$.25	\$.22	\$.19
29524	RIC220	.600"W rail	.29	.25	.19
29583	RRS	Rubber stop	*	.07	.05

## Clip-On Reading Light

Two bright LEDs spread the light evenly over the entire reading area.

- Overall length: 6"
- Light weight and portable
- Flexible neck
- Uses 2 CR2025 coin batteries (included)

Part No.	Description	1	5	25
2120508	Clip-on LED light	\$9.95	\$8.95	\$7.95

## Standard Adjustable 3X Magnifying Lamp

- 4" Diameter lens
- Maneuverable 30" arm extension
- Lamp tilts & turns in any direction
- Uses 60W incandescent bulb (not included)
- Power requirement: 110VAC/60Hz
- 3-diopter lens • Weight: 2.9 lbs.

Part No.	Description	1	5
22710	Magnifying lamp	\$26.95	\$23.59

## 3X, 3-Bulb Magnifying Lamp

- Three 9-watt fluorescent compact bulbs
- Adjustable 3-diopter lens
- 7" x 4.5" rectangular lens
- 47" long arm • 2 on/off buttons
- Color: beige • Weight: 8.15 lbs. • UL listed

Part No.	Description	1	5
217517	Adj. magnifying lamp	\$89.95	\$84.95

## KLIP-ON Deluxe 3X Magnifying Lamps

- High quality 3.5" Dia. glass lens w/ dust cover
- Heavy duty 2" spring loaded clamp
- Super bright 13 watt fluorescent bulb (6400 Kelvin) included
- 16" gooseneck-directs light in any directions
- Weight: 2.0 lbs.

Part No.	Cross Ref. No.	Color	1	5
1955044	LUX250W	White	\$29.95	\$26.95
1955052	LUX250B	Black	29.95	26.95

## Precision 5 Diopter Magnifying Lamp

- 40" arm extension • 5 diopter lens
- 5" diameter lens • Weight: 7.1 lbs.
- Power requirement: 110VAC/60Hz
- Includes: 22W circuline fluorescent bulb

Part No.	Description	1	5
197456	Magnifying lamp	\$89.95	\$79.95

\*Magnifying Lamps Online — Enter Web Code DAW

## 3X Magnifying Lamps

- 5" Dia. lens • 45" extension arm
- Supplied w/ 22-watt circuline tube
- Extra strong, all-metal mounting base with electrical outlet
- Metal bulb holder for extra protection
- Power requirement: 110VAC/60Hz • 3-diopter lens

Part No.	Description	Wt. (lbs.)	1	5
100829	Black lamp	7.3	\$59.95	\$54.95
149981	White lamp	7.3	59.95	54.95

## 3 Diopter Magnifying Lamp

With Measurement Marking Base

- 30" arm extension
- 7" 3 diopter lens
- Adjustable plastic lens cover
- Weighted base for desktop use
- Bulb type: 4 x 3.4W LED
- On/off switch

Part No.	Description	Wt. (lbs.)	1	5
2120330	LUX-400	7.0	\$129.95	\$116.95

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.



## General Purpose Illuminated 3X Magnifier

- 3.5"Dia. x 7.5"L
- Great for magnifying fine print
- 90mm diameter lens
- Light requires 2 AA batteries (not included, recommend P/N 198707, pg 137)



Part No.	Description	1	5
149542	Illuminated magnifier	\$4.95	\$4.49

## 3X Flexible Neck Magnifier

- 3.5" diameter
- 3x diopter lens
- Flexible gooseneck with workbench clamp
- Arm length: 20"
- Weight: 1.8 lbs.



Part No.	Description	1	5
239548	Flexible neck magnifier	\$10.95	\$8.95

## Glue Gun and Glue Sticks

- Adheres to PCBs, cardboard, wires, metal and cloth
- Silicon nozzle
- Electronic heating
- Trigger action
- Utilizes 100mm long gluesticks (2 sticks included) • Size: 7.3"L x 6.3"W



Part No.	Description	1	5	25
72696	Glue gun	\$7.95	\$7.29	\$6.49
78633	Glue sticks (6/pk)	2.95	2.49	1.95

## Butane Powered Mini-Trigger Torch

- Adjustable gas flow up to 2500°F
- Self-igniting piezo electric ignition
- Meets child safety requirements
- Slide lock for continuous use
- 60 min. burn time



Part No.	Mfr.	Part No.	1	5
2097483	MT-70		\$17.95	\$16.49
2097491	5 1/8 oz. butane		5.49	4.95

## Table-Top Micro Torch

- Flame temp. approx. 2500°F
- Self-igniting system w/ safety lock
- Safety lock to prevent unintentional ignition and for storage
- Wide stable base, perfect for lab use
- Educational lab burner applications
- Slide lock for continuous use • 60 min. burn time



Part No.	Mfr.	Part No.	1	5
2097467	MT-30		\$34.95	\$31.95
2097491	5 1/8 oz. butane		5.49	4.95

## Magna-Lite Butane Table-Top Torch

- Flame temperature: 2500°F (1300°C)
- Waterproof piezo ignition
- Adjustable flame control
- Refills in 20 seconds with standard butane gas
- Run time: 60 minutes (@ middle flame setting)
- Child-resistant ignition for safety
- Uses: brazing, soldering, heat shrink tubing, industrial maintenance

Weller



Part No.	Mfr.	Part No.	1	5
1943001	ML200		\$29.95	\$26.95

## Heat Guns and Strippers

★ Web Code: QAJ

All Master® products are made in the US from superior quality materials and the finest craftsmanship. Heat guns are ideally suited for drying, heating, welding, shrinking, soldering, desoldering, and many other applications where heat is required.



2076578: • CFM selectable • Weight: 1.0 lb.

2076501: • Includes 4 attachments & case

• No slip adjustable stand

• Weight: 4.0 lbs.

191943: • 3-pos. switch (hot/off/cool)



Part No.	Mfr.	Product No.	Description	Watts	Heat Setting (°F)	Temp. (°F max.)	1	5
2117413	NTE	HG300-D	Mini heat gun	350	482-662	662	\$19.95	\$18.95
254925	BenchPro	1001A	Economical heat gun	1000	600 & 1000	1000	39.95	35.95
76865	BenchPro	G1HG1	Heat gun/stripper	1500	600 & 1100	1100	44.95	39.95
2076578	Master	EC-100K	Economical heat gun (7 & 9 CFM)	1200	500 & 1000	1000	54.95	51.95
2076501	Master	HG-501A	Industrial heat gun (23 CFM)	1680	750	750	114.95	104.95
191943	Weller	6996C	Industrial heat gun	250	750-800	800	149.95	139.95
2007062	BenchPro	1004	Tool kit for 254925	—	—	—	12.95	11.95
217816	BenchPro	HG018-AO	Heat shrink attach for 76865	—	—	—	1.95	1.69
217832	BenchPro	HG018-CO	Air spreader for 76865	—	—	—	1.95	1.69

## Butane Powered Cordless Soldering Iron

- Built-in on-off switch
- Can be used as a torch or hot blower
- Length: 8.5"
- Maximum temperature: 450°C (842°F)
- Average use of 40 minutes on a full load



Part No.	Mfr.	Part No.	1	5
645520	GASIRON2		\$29.95	\$26.95

## 16 to 30-Watt Variable Soldering Iron & Stand

116572: Length: 7.5"

36329:

- Black anodized steel base – 5.3"L x 3.3"W
- See below for replacement sponge (P/N 134631)
- Fits most soldering irons .85" dia.



Includes: Sponge

Part No.	Description	1	5	25
116572	25VL soldering iron	\$19.95	\$17.95	\$15.95
36329	Soldering stand	4.95	4.45	3.95
134631	Sponge (for P/N 36329)	2.95	2.59	2.29

## 25-Watt Thermally Balanced Soldering Iron

The XY200GX is a thermally balanced soldering iron for the professional or hobbyist.

- 120VAC; 6' cord
- 25-watt power consumption
- Interchangeable tips (pg 158)
- UL listed
- Length: 8.0"
- One-year warranty

Includes: 1.6mm conical tip

Part No.	Mfr.	Part No.	1	5	25
129040	200GX-25W		\$13.95	\$11.95	\$9.95

## Legacy Replacement Sponge

- Use with XY9-60 & 968D

Part No.	Mfr.	Part No.	1	5
236460	78-744615		\$2.95	\$2.59

## 40-60-Watt High-Performance, Economical Soldering Irons

High-quality soldering irons that are suitable for both professional & do-it-yourself applications.

- Length: 9"
- 120VAC; 6' cord with 3-prong plug
- Tips for P/N 224602; P/N 226018/226000
- Tip for P/N 195223; P/N 226026
- For additional tips see pg 158



Part No.	Mfr.	Part No.	1	5	25
224602	200PHG-40W		\$11.95	\$10.95	\$9.95
195223	200PHG-60W		12.95	11.49	10.49
226018	44-240513 conical tip		1.95	1.59	1.29
226000	44-240517 chisel tip		1.95	1.59	1.29
226026	44-240617 chisel tip		1.95	1.59	1.29

## 35-Watt SMD Tweezer Iron

- Max. temp.: 760°F
- 120VAC
- Max. efficiency ceramic heating elements insures rapid heat-up and instant heat recovery
- Heater insulation exceeds 100MΩ
- Heater power consumption: 35W ea.



Includes: 0.078" tip

Part No.	Description	1	5	25
168410	Tweezer iron	\$54.95	\$49.95	\$44.95
168583	Tip .078"	9.95	8.95	7.95
168591	Tip .590"	11.95	10.95	9.95

## Weller® 25 & 35-Watt High-Quality Soldering Irons

- 120VAC @ 60Hz
- Interchangeable heater elements
- Lightweight handle with cushioned grip
- Quick change knurled collar
- Length: 9"



Includes: Power cord & ST3 tip (pg 156)

Part No.	Mfr.	Part No.	Description	1	5
170587	WP25		25W solder iron	\$44.95	\$39.95
192102	WP35		35W solder iron	47.95	45.95
146608	ST1		Screwdriver tip 1/16"	5.95	4.95
146616	ST3		Screwdriver tip 1/8"	5.95	4.95
192145	ST6		Screwdriver tip .031"	5.95	4.95
146624	ST7		Conical tip 1/32"	5.49	4.49

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## Weller® 25 & 40-Watt Marksman Home Project Kits

Perfect for beginners and hobbyists. Includes stand.

- Stainless steel barrel and heat/impact resistant handle
- Ideal for kits, radios and electronics
- Indicator light shows iron is on

2094143

2094143 Includes: Knife and 2 tips

2094160 Includes: Soldering aid tool, 3 tips & solder

Part No.	Mfr. Part No.	Description	1	5
2094143	SP23LHPK	25W iron kit	\$19.95	\$18.95
2094160	SP40LK	40W iron kit	24.95	23.49

## Weller® 100-Watt Soldering Iron

- "Closed loop" method of controlling max. tip temperature
- Nominal heat-up time with 700°F tip is 110 seconds
- 120VAC @ 60Hz input
- Length: 6" • Weight: 0.7 lbs.



192081



Includes: CT6F7 (0.375" screwdriver tip; 700°F)

Part No.	Mfr. Part No.	Description	1	5
192081	W100PG	Solder iron	\$64.95	\$59.95
192090	CT6F7	.375" screwdriver tip	6.95	6.29

## Weller® 25 to 125-Watt Cordless Soldering Iron Kit

- Self-igniting & instant heat
- Adjustable temperature (25W to 125W)
- Auto switch off
- Visible gas level
- Additional tips can be special ordered
- 2 hours of heat on average tank setting



Includes: Soldering tool, hot blower tip, hot knife tip, 2.4mm and 4.8mm double flat tip, cleaning sponge, storage case and instruction manual

Part No.	Mfr. Part No.	1	5
152207	PSI-100K	\$89.95	\$79.95

## Weller® 8 & 11-Watt Battery Powered Soldering Iron

- Heats to working temperature in less than 15 seconds
- White LED light illuminates working surface
- Dual heat settings: 8 watts on low setting (850°F) or 11 watts on high setting (950°F)
- Co-molded grip for comfort grip and protective safety cap turns off power when placed on tool
- Over 150 intermittent solder joints with fresh batteries



Includes: Iron, tip, 4 "AA" batteries, lead free solder, and tip/wrench stand

Part No.	Mfr. Part No.	1	5
1943060	BP860MP	\$23.95	\$19.95

## 30 to 100-Watt Soldering Kit

- Includes: • 30W soldering iron
- 100W soldering gun w/ extra tip
- Manual desoldering pump
- Mini third-hand board/ component holder
- Soldering aid tool
- Lead solder
- Size: 13.8"L x 11"W x 3"H



Part No.	Product No.	Wt. (lbs.)	1	5
684596	GSR-600A	4.0	\$35.95	\$29.95

## WAHL® 25-Watt Cordless Soldering Iron

IsoTip® Power Pro Model #7904

- 900°F tip temperature
- LED indicator light
- Solders 200+ joints or up to 30 minutes of continuous soldering
- Iron performance equivalent to 25-watt iron • Weight: 1.1 lbs.



Includes: Iron, charging stand, battery pack and tips

Part No.	Description	1	5
132783	Power Pro cordless iron	\$69.95	\$64.95

\*Soldering Irons — Enter Web Code QAS

## Electric & Manual Desolder Pumps

- Easily disassembled for cleaning
- Replacement tips available
- 19255: • UL listed
- One-hand operation
- Size: 10.5"L x 1.0"Dia.
- 19166: Size: 7.8"L x 0.8"Dia.
- 1942139: Size: 13.3"L x 1.0"Dia.



19255



19166

1942139



\*Web Code: GAS

Part No.	Description	1	5
19255	Electric desolder pump	\$26.95	\$23.95
19166	Manual desolder pump	4.95	4.49
1942139	Manual desolder pump	8.95	7.95
19262	1 tip for 19255	3.95	3.49
22091	2 tips for 19166	4.49	3.95

## Weller® 40-Watt Soldering Station

- Lighted on/off switch
- Adjustable power from 5 watts to 40 watts
- 120V @ 60Hz
- Temp. is electronically controlled from 350° to 850°F
- Size: 5.5"L x 4.5"W x 3.5"H • Weight: 1.9 lbs.



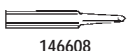
Includes: ST3 1/8" screwdriver tip and manual

Part No.	Mfr. Part No.	1	5
146595	WLC100	\$59.95	\$54.95

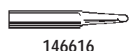
## Weller® Soldering Tips

Replacement Tips for WLC100, WP25 & WP23

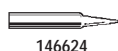
\*Web Code: NAB



146608



146616



146624

Part No.	Mfr. P/N	Description	1	5
146608	ST1	Screwdriver tip 1/16" ...	\$5.95	\$4.95
146616	ST3	Screwdriver tip 1/8" ...	5.95	4.95
192145	ST6	Screwdriver tip .031" ...	5.95	4.95
146624	ST7	Conical tip 1/32" ...	5.49	4.49

**We're Listening to What You Need**



*Our goal is to provide you with more of what you want. Let us know how we can better serve your electronic needs.*

**Send feedback to Management@Jameco.com.**

## Weller® 42-Watt Controlled-Output Soldering Station

- Complete with macro style, low voltage, temp. controlled soldering iron
- Closed loop method of controlling maximum tip temperature for protection of temperature sensitive components
- 120VAC @ 60Hz input
- Power unit housing features impact resistant plastic for durability • Uses PT series tips
- Quick disconnect plug for soldering iron and lighted on/off switch • Weight: 4.0 lbs.
- Separate conductor grounds iron tip and terminates third pin of power cord • Size: 5.9"L x 4.5"W x 3.6"H



Includes: Soldering iron and PTA7 tip (below)

Part No.	Mfr. P/N	Description	1	5
170552	WTCP	Solder station	\$144.95	\$136.95
192161	TC201T	Replacement iron	84.95	79.95
192170	PTA6	Screwdriver tip 600°F ...	3.95	3.49
192188	PTA7	Screwdriver tip 700°F ...	3.95	3.49
192196	PTA8	Screwdriver tip 800°F ...	3.95	3.49

\*Soldering/Desoldering Stations — Enter Web Code GEJ

## 45-Watt Digital Soldering Station

Grounded Soldering Tip

- 150°C to 480°C (302°F to 896°F)
- Fully grounded
- Insulated ceramic heating element for rapid heat-up and heat recovery
- Heater insulation exceeds 100MΩ
- Zero voltage circuitry eliminating high voltage spike and magnetic field generation
- Size: 4.1"L x 3.5"W x 3.5"H • Weight: 2.5 lbs.



Includes: Manual, soldering iron w/ 1/32" tip, stand, tip cleaner and sponge

156814: Sharp conical chisel tip

156822: Conical chisel tip

Part No.	Mfr. Part No.	Description	1	5
2114685	LF369D	45W station	\$49.95	\$44.95
156814	XYB01	1/32" tip	3.95	3.49
156822	XYB04	1/16" tip	3.95	3.49
134631	SP715	Sponge	2.95	2.59

## Weller® 50-Watt Analog & Digital Display Soldering Stations

Innovative heater and sensor combination for quick heat-up and rapid temperature recovery.

- Tip temperature offset capability allows user to reset temperature readings to match tip size and style
- Wireless temp. lockout
- Auto power-down after 90 minutes of inactivity • Temp. accuracy: ±9.0°F
- Temperature range: 350°F to 850°F • ESD safe
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.



233533

Includes: PES51 50W soldering iron with ETA tip, PH50 stand and sponge, and adjustment tool

Part No.	Mfr. Part No.	Description	1	5
217461	WES51	Analog	\$129.95	\$124.95
233533	WESD51	Digital	169.95	159.95
2082847	PES51	Soldering iron	38.95	37.95



## 70 & 80-Watt Soldering Stations

- Input: 110-120VAC @ 60Hz
- Nichrome heating element on soldering iron
- Soldering iron assembly w/ nichrome heating element & K-type thermocouple sensor
- Adjustable knob for temp. setting • Weight: 5.3 lbs.
- Includes: soldering station, soldering stand with cleaning pad, soldering iron, manual



1950711

- 1950711: Analog 70-Watt** • Size: 8"L x 5.2"W x 3.8"H
- LED to indicate power (green), heater on (red)
  - Temp. acc.:  $\pm 3^{\circ}\text{C}$  • Uses model 209 soldering iron
  - Temp. range: 200°C to 450°C (329°F to 842°F)

### 2099180: Digital 80-Watt

- Temp. accuracy:  $\pm 3^{\circ}\text{C}$
- Temp. range: 200°C to 480°C (392°F to 896°F)
- Size: 4.2"W x 3.6"H x 5.0"D • ESD safe
- Uses 108ESD soldering iron assembly

Part No.	Mfr. Part No.	Description	1	5
1950711	169	Analog	\$84.95	\$79.95
2099180	LF-1600	Digital	89.95	79.95



## 80-Watt High-Power Stained Glass Soldering Station

- 100-120VAC @ 60Hz or 220-240VAC @ 50Hz
- On/off switch with "power on" indicator light
- Temperature range: 482-923°F (250-500°C)
- Variable power control
- Safety guard iron holder • Cushioned foam grip



Part No.	Mfr. Part No.	1	5
2118467	LT-80	\$44.95	\$39.95

## Weller® 80-Watt Soldering Station

- 120V @ 60Hz
- Lighted on/off switch
- Adjustable power from 5 to 80 watts
- Temperature is electronically controlled from 350° to 900°F
- Size: 5.5"L x 4.5"W x 3.5"H
- Weight: 2.1 lbs.



2082775

Includes: MTG21 1/4" chisel tip and manual

Part No.	Mfr. Part No.	Description	1	5
2082775	WLC200	Soldering station	\$69.95	\$65.95
2082812	MTG21	1/4" chisel tip	7.95	7.49
2082821	MTG22	3/8" cone tip	8.95	8.49
2082783	WCC104	Sponge	1.75	1.59

## Weller® 85-Watt Digital Soldering Station

- New WP80 soldering pencil with short tip-to-grip (52mm)
- Barrel can be exchanged with optional longer version to work at standard length (65mm)
- Unique silver heater allows fast, efficient soldering
- Uses WP80 soldering pencil and WDH10 soldering stand
- Size: 15.4"L x 10.2"W x 5.2"H • Weight: 8.2 lbs.



Part No.	Mfr. Part No.	1	5
684772	WD1002	\$309.95	\$299.95



## 90-Watt ESD Safe, Lead Free Soldering Station

- Specially designed for RoHS compliant soldering
- 90W, 115VAC/230VAC 50/60Hz
- Temp. set range: 200°C to 450°C (392°F to 842°F)
- Temp. correction range:  $\pm 90^{\circ}\text{C}$  ( $\pm 99^{\circ}\text{F}$ )
- Alarm function for sensor circuit breaker and heater circuit breaker
- 20-minute non-usage suspend function and 40-minute suspend power off function
- Soldering temp. locked by password
- 32VAC low voltage ceramic heater
- Size: 4.4"W x 6.2"H x 5.4"D



Part No.	Mfr. Part No.	Wt. (lbs.)	1	5
2099201	LF-2000	3.1	\$135.95	\$119.95

**\*Soldering/Desoldering Stations — Enter Web Code GEJ**

## Weller® Soldering Tips

### Replacement Tips for WES51 & WESD51

- Tip leakage: less than 2mV
- Tip to ground res.: less than 2 $\Omega$
- Additional tips can be special ordered

**\*Web Code: NAB**



Part No.	Mfr. P/N	Description	1	5
16774	ETA	Screwdriver 1/16"	6.95	\$6.29
16782	ETJ	Long screwdriver 1/32"	6.95	6.29
16803	ETR	Narrow screwdriver 1/16"	6.95	6.29
16811	ETS	Long conical 1/64"	6.95	6.29
2082783	WCC104	Replacement sponge	1.75	1.59

## Replacement Sponges for Legacy Model Soldering Stations

- 134640: For 138-3
- 134631: For XY-60D, XY-379 & XYT379-C

Part No.	Mfr. Part No.	1	5	25
134640	SP815	\$1.95	\$1.75	\$1.59
134631	SP715	2.95	2.59	2.29



## Desoldering Tips

- Replacement tips for LF7000 (P/N 1919107) and LF8000 (P/N 2099198)



Part No.	Description	1	5	25
2095509	Desolder tip 1.2mm	\$8.95	\$7.95	\$6.95
2095517	Desolder tip 1.5mm	8.95	7.95	6.95



## Vacuum Pen Tools



- ESD safe body
  - Picks up components with weight of 1.1 lbs. or less
- | Part No. | Description                 | 1       | 5       |
|----------|-----------------------------|---------|---------|
| 207239   | Handivac tool (4 tips/cups) | \$19.95 | \$17.95 |
| 207247   | Pen vac tool (6 tips/cups)  | 39.95   | 33.95   |



## 90-Watt Analog Soldering & Desoldering Station

- Soldering iron: 32VAC output, 90W, 200°C to 480°C (400°F to 900°F) temperature range with 1.6mm/1/16" tip
- Input voltage: 100 - 120VAC @ 60Hz
- Desoldering iron (DIA80): 32VAC output, 80 watt, 300°C to 450°C (570°F to 850°F) temp. range, with 1.2mm/0.048" tip
- Temperature stability:  $\pm 3^{\circ}\text{C}$  (6°F)
- Pump controlled by a finger actuated thyristor on desoldering iron • Automatic power down after 15 minutes of idle as indicated by pause LED
- Dials for temperature settings on both soldering and desoldering iron
- Analog readout for vacuum pressure
- Self-contained vacuum pump engineered to provide continuous, maintenance free operation
- Zero voltage switching and full grounded design
- Adjustable temperature without changing tips
- Size: 10.8"W x 12.5"D x 4.1"H



Includes: 104A/105A soldering stands, A-2000-1 soldering stand, DIA80 desoldering iron with #44-915412 tip, 210ESD soldering iron with #44-415404 tip, 5pc. 5" high precision tweezers, AX205 5" micro cutting pliers, steel brush/cotton/foam replacement filters, power cable, and instruction manual

Part No.	Mfr. Part No.	1	5
1919107	LF-7000	\$339.95	\$319.95



## 100-Watt High-Powered Soldering & Desoldering Station



- Input voltage: 110-120VAC @ 60Hz
- Soldering iron: 32VAC/100W 150°C to 480°C (302°F to 896°F)
- Desoldering iron: 32VAC/100W 300°C to 450°C (572°F to 842°F) • Temp. stability:  $\pm 3^{\circ}\text{C}$  (6°F)
- Temp. correction range:  $\pm 99^{\circ}\text{C}$
- Default set temp.: soldering iron -150°C; desoldering iron -300°C
- Pump controlled by a finger actuated thyristor with built-in delayed suction operation (1.5 sec. delay)
- Zero voltage electronic design to protect voltage and current sensitive components
- Energy saver mode after 20 minutes of idle time and auto power down after 40 minutes idle time
- Heater and sensor failed detection and temp. lockout features • Digital temp. readout
- Detachable soldering and desoldering wand
- Size: 4.2"W x 3.6"D x 5.0"H

Includes: 307A soldering iron, DIA100 desoldering iron, 105C, 104A & A-2000-1 soldering stand, fume extractor, AX205 micro cutting pliers, 5-piece high precision tweezers, filter and cleaning accessories for desoldering iron, AC power cord and manual

Part No.	Mfr. Part No.	1	5
2099198	LF-8800	\$399.95	\$379.95

**More Information Online**  
[www.Jameco.com](http://www.Jameco.com)

Compare products online to quickly find the products you want with the specifications and real time product availability. Purchasing products has never been easier.

**\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above**



# Soldering Equipment, Solder Kits & Tips

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

## 80-Watt Desoldering Station

- Input voltage: 100 – 120VAC @ 60Hz
- Heater: 32V, 80W
- Large digital temp. display
- Adjustable temperature without changing tips
- Tip temperature accurate to  $\pm 3^{\circ}\text{C}$  ( $6^{\circ}\text{F}$ )
- Zero voltage switching & fully grounded design makes this unit safe on electro-sensitive devices
- Suction controlled by a finger actuator thyristor located on the desoldering handle
- Self-contained diaphragm vacuum pump engineered to provide continuous, maintenance free operation
- Temperature range:  $300^{\circ}\text{C}$  to  $450^{\circ}\text{C}$  ( $572^{\circ}\text{F}$  to  $842^{\circ}\text{F}$ )
- Size: 7.9"W x 9.3"D x 4.5"H

**Includes:** DIA80 desoldering iron, 2 soldering stands, foam filters, & cleaning brush

Part No.	Mfr. Part No.	1	5
1919094	LF-6000	\$299.95	\$284.95

## Heat Sink & Soldering Aid Kit



**100378:** Heat sink absorbs and dissipates heat during soldering & desoldering of sensitive parts  
**100503 Includes:** Soldering wick, 3 pc. scraper set, acid brush, clip-on heat sink and empty squirt bottle

Part No.	Description	1	10	100
100378	Heat sink	\$ .49	\$ .45	\$ .39
100503	7-piece soldering kit	6.95	6.29	5.49

\*SMD Rework Stations — Enter Web Code NAT

Look for pricing shaded in blue throughout the catalog and for a larger selection go to:

[Jameco.com/MakesCents](http://Jameco.com/MakesCents)

## 80-Watt SMD Rework Stations



- Long-life ceramic heating element
- High-performance, inexpensive, versatile
- Thermocouple sensor for stable temperature
- Rapid heat-up and recovery

**2120541:** • Size: 7.4"L x 5.0"W x 3.3"H  
 • Adjustable temperature:  $482\text{--}842^{\circ}\text{F}$  ( $250\text{--}450^{\circ}\text{C}$ )  
 • 25-watt ceramic element • Weight: 2.6 lbs.

**2099219:** • Size: 8.8"L x 6.0"W x 4.5"H  
 • Adjustable temperature:  $392\text{--}896^{\circ}\text{F}$  ( $200\text{--}480^{\circ}\text{C}$ )  
 • 40-watt ceramic element • Weight: 4.2 lbs.

**Includes:** Base power unit, sponge, stand, surface mount tweezer iron, and stand for tweezers

Part No.	Description	1	5
2120541	80-watt station	\$79.95	\$69.95
2099219	80-watt station	139.95	129.95
168583	.078" tip	9.95	8.95
168591	.590" tip	11.95	10.95
156814	.03125 conical	3.95	3.49

## Solder Aid Tool Kit

**Includes:** 1 each of chip holder, spacer, reamer, lever, needle, knife, fork shaft, hook and brush

Part No.	Mfr. Part No.	1	5
2096000	GSR-107	\$5.95	\$5.49

## 30-Watt Solder Tool Kit

**For Beginners**

**Includes:** Soldering iron with stand, long nose pliers, wire strippers, side cutters & sponge

Part No.	Description	1	5
358598	7-piece tool soldering kit	\$15.95	\$13.95

## 600-Watt Hot Air SMD Rework Station with Digital Display

- Incorporates the largest pump in the industry
- Long life, high-power ceramic heater insures accurate and sufficient heat where you need it
- Automatic cooling mode protects the heating element
- Airflow capacity: 1.5L/min. ~ 40L/min.
- 600W nichrome heating element
- Power supply: 100-120VAC @ 60Hz or 220-240VAC @ 50Hz
- Electronically controlled temperature system w/ digital readout in preset & actual temp.
- Hot air temp. range:  $100^{\circ}\text{C}$  -  $480^{\circ}\text{C}$  ( $212^{\circ}\text{F}$  -  $896^{\circ}\text{F}$ )
- 25-watt diaphragm pump
- Continuously adjustable air-flow
- Size: 11.1"W x 4.7"H x 7.5"D • Weight: 10.8 lbs.

**Includes:** Extra 600W heater, 4 focus hood tips, 5 stainless steel anti-magnetic tweezers, IC popper for IC extraction

Part No.	Mfr. Part No.	Description	1	5
2128032	LF-852D	SMD rework	\$225.95	\$199.95
262959	A1136B	PLCC 20 x 20	45.95	39.95
262916	A1127B	QFP 17.5 x 17.5	29.95	25.95
262844	A1182B	BQFP 24 x 24	45.95	39.95
262801	A1129B	QFP 28 x 28	45.95	39.95

## Soldering Starter Kit










**Kit includes:**

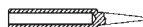
- Solder stand (P/N 36329, pg 155)
- 25W soldering iron (P/N 129040, pg 155)
- Solder pocket pack (P/N 170457, pg 160)
- Replacement sponge (P/N 134631, pg 157)
- Clip on heat sink (P/N 159126, pg 160)
- Solder aid tool kit (P/N 100503, pg 158)
- 4" diagonal wire cutter (P/N 179902, pg 151)
- 5.3" flat long-nose pliers (P/N 35474, pg 151)
- 10-30 AWG wire stripper (P/N 78992, pg 150)


Part No.	Description	1	5
2113228	Soldering starter kit	\$29.95	\$26.95


## Tips & Replacement Parts for XYTronic Soldering and Desoldering Products


\*Web Code: NAB


																		
35318	35326	35078	35334	35115	35238	207335	207351	140231										
For XYTronic Model Numbers (* Legacy Models)																		
Part No.	Mfr. P/N	Description	169D LF-1000	280W JS238 200W LF-1000	379-C LF-369D LF-1600	1364SD LF-1600	168* AESD 168-3C	168* XY80A DES	960D	968	999SDA	LF-8800	LF-8000	LF-7000	LF-6000	Pricing		
																1	10	25
35318	XY48	Assembly - 60W w/ nichrome heater						✓			✓					\$29.95	\$26.95	\$23.95
35326	XY401	Soldering tip - conical bevel 1/32"		✓				✓	✓					✓		4.49	3.95	3.59
35078	XY402	Soldering tip - semi-chisel 1/32"		✓				✓	✓		✓			✓		4.49	3.95	3.59
35334	XY403	Soldering tip - conical sharp 1/64"		✓				✓	✓		✓			✓		4.49	3.95	3.59
35115	XY404	Soldering tip - conical chisel 1/16"		✓				✓	✓		✓			✓		4.49	3.95	3.59
35238	XY405	Soldering tip - semi-chisel wide 1/8"		✓				✓	✓		✓			✓		4.49	3.95	2.95
207335	XY406	Soldering tip - long conical chisel 3/64"		✓				✓	✓					✓		4.49	3.95	2.95
207351	XY410	Soldering tip - chisel 3/16"		✓				✓	✓		✓			✓		4.49	3.95	3.59
140231	XY430	Soldering tip - SMD flat pack 7/32"		✓				✓	✓		✓			✓		6.95	5.95	4.95
156814	XYB01	Soldering tip - sharp conical chisel 1/32"				✓										3.95	3.49	2.95
207327	XYB03	Soldering tip - conical sharp 1/64"				✓										5.95	5.49	4.95
156822	XYB04	Soldering tip - conical sharp 1/16"				✓										3.95	3.49	2.95
207298	XYB05	Soldering tip - semi-wide chisel 1/8"				✓										4.49	3.95	3.59
127634	XYD10	Desoldering tip - 1.0mm (.0394")							✓	✓	✓	✓				8.95	7.95	6.95
127642	XYD12	Desoldering tip - 1.2mm (.0472")							✓	✓	✓	✓				8.95	7.95	6.95
127651	XYD15	Desoldering tip - 1.5mm (.0586")							✓	✓	✓	✓				8.95	7.95	6.95
2095509	XY12	Desoldering tip - 1.5mm (.0472")											✓	✓		8.95	7.95	6.95
2095517	XY15	Desoldering tip - 1.5mm (.0586")												✓	✓	8.95	7.95	6.95


  
156814


  
207327


  
156822


  
207298

  
127634

  
127642

  
127651

  
2095509

  
2095517

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.



## Solder Spool & Iron Stand

- 4 pc. spool stand (some assembly required)
- Size: 6"L x 3.5"W x 3.1"H
- Sponge size: 1.6"W x 2.4"L
- Shaft diameter: 0.6"



Part No.	Description	Wt. (lbs.)	1	5	25
169551	Spool & iron stand	2.0	\$12.95	\$11.95	\$10.95

**\*Solder Spool Stand — Enter Web Code YAU**

JAMECO  
ValuePro

## Solder Spool Stand

- 12 pc. solder spool stand (some assembly required)
- Size: 3.6"W x 3.9"D x 4.3"H
- Shaft dia.: 0.6"



Part No.	Description	Wt. (lbs.)	1	5	25
141761	Solder spool stand	1.6	\$10.95	\$9.95	\$8.95

## Soldering Tip Cleaner with Stand

- For cleaning soldering iron tips without the use of water and sponge
- Metal wool for cleaning
- Rubberized base for stability



Part No.	Description	Wt. (lbs.)	1	5	25
156777	Tip cleaner & stand	0.5	\$4.95	\$4.49	\$3.95
160004	Metal wool replacement	0.1	2.49	2.29	1.95

## 150-Watt Solder Pot

- On-off switch on handle
- Input voltage: 120VAC
- Maintains pot temp. of 450°C to 480°C (842°F to 896°F)
- 3-conductor power cord: 5' long
- Pot size: 30mm deep x 35mm Dia.



Part No.	Product No.	Wt. (lbs.)	1	5
2115418	RD-7339	1.2	\$49.95	\$44.95

## 300-Watt Solder Pot

**Temperature Regulated**  
Between 420°C and 450°C

- 2 conductor power cord: 5' 9" long
- Holds up to 1 bar of P/N 176057 or NM, pg 160
- Input voltage: 110VAC @ 2.7A; 50-60Hz
- Size: (unit) 4.8"H x 5.5" Dia. (base)
- Size: (tub) 2.4"Dia. x 1.6"D
- One-year warranty



Part No.	Description	Wt. (lbs.)	1	5
1951625	300W solder pot	5.9	\$89.95	\$79.95

## 600-Watt Solder Pot

**Temperature Adjustable**

- 2-wire power cord (5'5")
- Temperature: 0°C to 500°C
- Self-regulating temperature
- Input voltage: 110VAC @ 5.5A
- On-off power switch and LED indicator for heat
- Holds up to 3 bars of P/N 176057 pg 160
- Size (unit): 6.8"L x 5.5"W x 2.8"H
- Size (tub): 3.9"L x 1.6"D

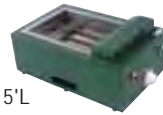


Part No.	Description	Wt. (lbs.)	1	5
172276	600W solder pot	7.4	\$249.95	\$225.95

**\*Solder Pots — Enter Web Code HAW**

## 2000-Watt Solder Pot

- Thermostat control for setting temp. from 50°C to 300°C
- Holds up to 48 bars of P/N 176057 pg 160
- 3 conductor pigtail power cord: 5'L
- Input voltage: 110VAC @ 18A, 50-60Hz single phase
- Size (unit): 18.1"L x 11.5"W x 6.0"H
- Size (tub): 12.0"L x 8.0"W x 2.9"H
- One-year warranty



Power cord not included (recommend P/N 37997, pg 124)

Part No.	Description	Wt. (lbs.)	1	5
149876	2000W solder pot	23.1	\$329.95	\$299.95

X

## 22-Watt Fume Extractor

**Absorbs noxious lead fumes using activated-carbon filter and a high-efficiency fan**

- Operate continuously providing filtered air
- Static ground jack • Fuse protected
- Air flow: 115 CFM • Noise: 49dB fan
- 20VAC, 60Hz, 22 watts
- Aerodynamic hood design for effective removal of solder fumes
- Removable carbon-impregnated filter
- Size: 6.4"W x 4.6"D x 7.9"H
- Weight: 4.6 lbs. • One-year warranty



**Includes:** Detachable power cord

Part No.	Description	Wt. (lbs.)	1	5
120150	Fume extractor	4.6	\$49.95	\$45.95
127183	Replace. filters (2/pk)	0.05	9.95	8.95

**\*Fume Extractors — Enter Web Code HAR**

## 320-Watt Fume Extractor System

**Compact & Portable**

The HV-2E replaces smaller less powerful counter top extractors and creates more work space in crowded labs & stations. The main unit features strong fan performance with both a pre-filter and standard filter. The internal pump system utilizes a brushless centrifugal fan motor that efficiently and quietly removes fumes.

- 7' long, 6.5" Dia. exhaust tubes
- Lockable metal casters
- Airflow: 175m³/hour • Noise level: <50dB
- Voltage: 110V/220V • Size: 13"W x 12"D x 17"H



Part No.	Mfr. Part. No.	Wt. (lbs.)	1	5
2099235	HV-2E	30.0	\$599.95	\$549.95

## Weller® 20-Watt Fume Extractor

This fume extractor removes flux fumes from the soldering workbench by drawing smoke through an activated carbon filter. With its exceptionally quiet fan, it can process up to 1.37 cubic meters of air per minute and its stand is adjustable allowing it to be set-up in multiple positions.

- Voltage: 120VAC • Sound level: 45-50dB
- Air consumption: 87-107CFM • ESD safe
- Power consumption: 20W • UL/CUL listed
- Absorption capacity: 1.25 cubic meters
- To 1.37 cubic meter per minute
- Size: 10"L x 6.5"W x 11"H



Part No.	Mfr. Part. No.	Wt. (lbs.)	1	5
684810	WSA350	4.2	\$69.95	\$64.95
684828	WSA350F (carbon filter)	0.02	7.95	6.95

X

## 42-Watt Combination Soldering Station and Fume Extractor

- Power consumption: 42W @ 650°F (soldering iron)
- Adjustable knob for temperature control: 500°F to 800°F
- Stability @ idle: ±9°F
- Max. air volume: 95/115CFM
- LED indicator for pilot light
- Electronic zero-voltage switching
- Input voltage: 100-120VAC @ 60Hz
- Size: 6.4"W x 7.8"H x 4.7"D



**Includes:** Soldering iron, iron holder, sponge, carbon activated filter, power cord and manual

Part No.	Mfr. Part. No.	Wt. (lbs.)	1	5
183169	456DLX	5.2	\$79.95	\$74.95

## Vacuum Base Vise

- Features the patented "split ball" that tilts, turns and rotates through three planes
- Powerful suction pad for quick and easy set-up
- Nylon jaws open 2.25"
- Size: 5.0"L x 4.0"W x 6.3"H
- One-year warranty

262116



**\*Web Code: TAD**

Part No.	Mfr.	Product No.	Wt. (lbs.)	1	5
262116	ValuePro	GV-300	3.3	\$39.95	\$35.95
27131	PanaVise	M381	3.3	69.95	63.95

## Third Hand Tools

- Two adjustable arms with alligator clip jaws
- Quick and easy rotation
- Sturdy, heavy base

UL

681002



Part No.	Description	Size	Wt. (lbs.)	1	5
72865	With holder/sponge	2.0"	1.4	\$8.95	\$7.95
681002	With holder/sponge	3.5"	1.7	9.95	8.95
26690	Third hand	2.0"	1.4	5.95	5.49

## PANA VISE Multi-Purpose Work Center

- Jaws open to 9"
- Double action extra wide self-centering heads allow fast opening and closing; centered weight allows jaws to hold heavier objects; plates can be reversed to close together; reversible jaw pads feature ribbing on one side and a V groove on the other
- Base has three 1/4" countersunk mounting holes
- Overall base diameter is 8.5"



Part No.	Mfr. Part. No.	Wt. (lbs.)	1	5
684852	350	5.0	\$99.95	\$89.95

## PANA VISE Electronic Work Center

- Circuit board holder, standard base, tray base mount, solder station, sponges and wire holder included
- Size: 8.5"W x 7.8"H
- One-year warranty



Part No.	Mfr. Part. No.	Wt. (lbs.)	1	5
27060	324	5.3	\$99.95	\$89.95

## PANA VISE Vacuum Base Vise

- Head moves through three planes: 210° tilt, 360° turn and rotation
- Grooved jaws are made of reinforced thermal alloy and open up to 2.9"
- Fine/coarse adjustment • Base dia.: 3.4"
- Jaw size: 2"H x 1"W • Height: 7.5"H



Part No.	Mfr. Part. No.	Wt. (lbs.)	1	5
251791	209	0.8	\$39.95	\$35.95

**\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above**

# Vises, Soldering Accessories & Tape Products

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRRUN	DOLLAR SALE

## PANAVISE PV Jr. Vise

- Jaw size: 1" wide x 2" long; opening: 2.8"
- Jaw heat tolerance: 350°F
- Vertical/horizontal jaw grooves
- Fine/course adjusting knob
- The vise neck tilts, turns and rotates
- Vise height: 6.8" • Weight: 1.4 lbs.
- Base bolt is 4.3" and fits all PanaVise base mounts



Part No.	Mfr. Part No.	1	5
134439	PVJR 201	\$27.95	\$25.95

## Rapid Assembly Circuit Board Holder

- 8 positions rotating adjustment, six positive lock positions in the vertical plane and height adjustment for quick board rotation speeds
- Holds circuit boards from 1/8" (3.2mm) to 12" (304.8mm) wide and up to 5/32" (4mm) thick
- Arms move independently
- 10" high (from base to top of vertical shaft)

PANAVISE



Part No.	Mfr. Part No.	Weight	1	5
684844	333	6.4 lbs.	\$89.95	\$84.95

## Clamp Vise

- No tools needed — finger turn to tighten
- Ball cup allows vise to adjust to any angle
- Nylon jaws open 2"
- Size: 10.0"L x 2.5"W • Weight: 2.1 lbs.



Part No.	Mfr. Part No.	1	5
127167	OR-307	\$19.95	\$17.95

\*For Vises — Enter Web Code TAD

## Thornton Clear Plastic Vials with White Lid

- Crystal polystyrene vials
- White polyethylene snap-caps
- Uses: hobby, home, education and science/medical labs

2120858



Part No.	Volumn (oz.)	Dia. (inch)	Inside Height (inch)	1	10	100
2120858	1.13	1	2-5/8	\$.35	\$.29	\$.25
2120866	2.50	1-1/2	2-11/16	\$.55	\$.45	\$.39
2120874	5.00	1-7/8	3-5/16	\$.65	\$.55	\$.49

## Plastic Pump Bottle

- 6 oz. bottle
- ESD compliant
- Plastic bottle with dispenser cover



Part No.	Mfr. Part No.	1	10	100
158131	450	\$9.95	\$8.95	\$7.95

## Acid Brush

- Used for application of reactive solvents
- Length: 6"



Part No.	Description	1	10	100
153322	Metal handle	\$.69	\$.59	\$.49

## Clip-On Heat Sink

- Absorbs and dissipates heat during soldering and desoldering sensitive parts



Part No.	Product No.	Size	1	10	100
159126	HT156	2.7"L x 0.7"W	\$2.95	\$2.59	\$2.29

## Solder Bars, Rolls and Pocket Packs

\*Web Code: ABD

Soldering can get messy at times. Knowing that you also have limited space on your workbench, we offer plenty of tools to keep your soldering job clean and organized. We have everything from circuit board holders and vises that hold your project steadily in place, to acid brushes and pump bottles to clean off that extra flux on your soldering job. Solder comes in a variety of compositions to fit your specific job, and pocket packs keep the solder neatly in a tube for your convenient traveling. If there's anything you don't see in the catalog, visit [www.Jameco.com](http://www.Jameco.com) for even more selection.

Part No.	Manufacturer	% Composition				Dia."	L"	Weight	Type†	Pricing	
		Tin	Lead	Silver	Copper					1	10
73576	Kester	60	40	—	—	0.031	—	0.5 oz.	2	\$2.79	\$2.55
32117	Kester	60	40	—	—	0.031	—	1.0 lb.	1	27.95	25.95
141786	Super	60	40	—	—	0.031	—	1.1 lbs.	1	19.95	17.95
176057	ValuePro	60	40	—	—	—	13	1.1 lbs.	4	26.95	25.49
94570	Kester	60	40	—	—	0.05	—	1.3 oz.	2	3.15	2.85
73605	Kester	62	36	2	—	0.02	—	0.35 oz.	2	2.85	2.59
151474	Kester*	63	37	—	—	0.031	—	1.0 lb.	1	27.95	24.95
115433	Kester	63	37	—	—	0.039	—	0.14 oz.	3	.99	.75
668262	ValuePro	96.3	—	3.2	0.5	0.04	—	7.2 oz.	1	29.95	27.95
668297	ValuePro	96.3	—	3.2	0.5	0.04	—	1.1 lbs.	1	69.95	63.95
2113172	Kester	96.5	—	3.0	0.5	0.031	—	0.43 oz.	2	2.95	2.69
2119136	ChipQuik	96.5	—	3	0.5	0.031	—	4.0 oz.	1	6.95	6.49
668271	ValuePro	96.5	—	3.5	—	0.04	—	9.6 oz.	1	34.95	31.95
668422	ValuePro	97.0	—	3.0	—	—	13	2.2 lbs.	4	39.95	36.95
170457	Various	99.3	—	—	0.7	0.031	—	0.8 oz.	2	2.49	2.25
668078	ValuePro	99.3	—	—	0.7	0.04	—	7.2 oz.	1	17.95	15.95
209075	Various	99.3	—	—	0.7	0.031	—	1.0 lb.	1	29.95	26.95
668406	Various	99.3	—	—	0.7	—	13	2.2 lb.	4	34.95	31.95

\*Organic core † 1. Roll 2. Packet 3. Coil 4. Bar \$ 2.2% Rosin core



141786



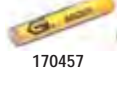
115433



668297



2113172



170457

## 5' Desolder Braids

\*Web Code: DAG

Part No.	Manufacturer	Mfr. Part No.	Description	Width (ins.)	1	10
124126	Techspray	1815-5F	No-Clean, Military & NASA certified	.055	\$3.95	\$3.69
124118	Techspray	1816-5F	No-Clean, Military & NASA certified	.075	4.25	3.95
263708	Techspray	1817-5F	No-Clean, Military & NASA certified	.098	4.69	4.39
263695	Techspray	1803-5F	Pro wick, pure rosin	.075	3.49	3.29
263599	Techspray	1804-5F	Pro wick, pure rosin	.098	3.75	3.49
263581	Techspray	1511-5F	Pro wick, pure rosin with bobbin	.098	3.59	3.29
41082	ValuePro	GISW20	Desolder braid	.079	1.89	1.69
41100	ValuePro	GISW25	Desolder braid	.098	1.99	1.79
153462	ValuePro	GSR104D	Desolder braid	.120	2.25	1.95
2113130	Chemtronics	60-3-5	Soder-wick no clean size 3	0.08	3.75	3.49
2113148	Chemtronics	60-4-5	Soder-wick no clean size 4	0.11	4.49	3.95



263708



263695



2113130

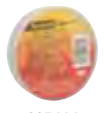
## 3M

## Tape Products

\*Web Code: TPS



285587



285464



652172



285907



645159



651882

Part No.	Description	Color	Width (in.)	Length (yards)	Thickness (in.)	Price		
						1	10	50
285587	Vinyl electrical tape, Tartan 1710, UL	Black	.75	20	.0070	\$1.35	\$1.19	\$1.09
285464	Vinyl electrical tape, Super 33+, UL	Black	.75	20	.0070	4.95	4.79	4.49
652156	Vinyl electrical tape, Super 35, UL	Yellow	.75	22	.0070	4.95	4.79	4.49
652172	General purpose masking tape, Scotch	Tan	.95	60	.0060	4.95	4.49	3.95
285907	Double sided foam tape	White	1.0	4	.1250	17.95	15.95	13.95
645159	Vinyl tape, clean removal	Red	2.0	36	.0051	19.95	18.95	17.95
651882	Safety stripe tape	Yellow/Black	2.0	36	.0050	29.95	28.95	27.95



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[www.Jameco.com/GotMail](http://www.Jameco.com/GotMail)

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.



## Workshop Chemicals & Heat Sink Compounds

Jameco has all the solutions to make your job easier. There's a wide variety of products that can be used with any project. Conductive pens simplify soldering jobs by just drawing a trace on the circuit board. Solder flux comes in many varieties to help work and rework your soldering jobs. Heat sink compounds take the heat off of your components without needing a bulky metal heat sink. Cleaning solutions keep your project looking clean and professional. If there's a way to make your job easier, Jameco can help. Visit [www.Jameco.com](http://www.Jameco.com) for more products.

Part No.	Manufacturer	Description	Vol. (oz.)	1	10
2120794	MG Chemicals	Adhesive epoxy, high temperature encapsulating and potting compound*	12	\$44.95	\$42.95
615769	GC Electronics	Adhesive, sealant, silicon, one part, non corrosive, clear	3	5.95	5.49
645845	3M	Super adhesive, household glue #6004*	1	4.95	4.49
263530	Techspray	Air duster, Envi-Ro-Tech, acusol, 100% HCFC, non-flammable, w/ trigger*	12	20.95	19.95
2094207	Caig/DeoxIT	Air duster, non-flammable, moisture free, non-ozone depleting, no VOC*	10	8.95	7.95
2112524	ChipQuik	Cleaner & tinner, soldering tip for pre-tinning & tinning*	8†	6.49	5.95
2094231	Caig/DeoxIT	Cleaner wash, contact evaporates quickly, safe on plastics*	10	7.95	6.95
118033	Techspray	Cleaner, contact, ECONOLINE, CFC free, aerosol can*	13.5	13.49	12.49
195004	Caig/DeoxIT	Cleaner, contact dioxidizer & preservative, improves electronic connections*	5	16.95	15.95
2094215	Caig/DeoxIT	Cleaner & conditioner, soldering tip	0.5	8.95	7.95
616331	GC Electronics	Conductive paint, silver print II*	0.5**	49.95	44.95
2110529	Caig/DeoxIT	Circuit writer pen, silver based, for drawing & repairing traces, works on rubb., epoxy, glass, plastic*	5g†	18.95	16.95
263716	Techspray	Conductive pen, silver ink*	0.17	34.95	31.95
2120559	MG Chemicals	Conformal coating, acrylic lacquer, protects from ESD*	2	10.95	9.95
2110481	Caig/DeoxIT	Degreaser wash, Val-U series, fast evaporating and safe on plastic*	10	7.95	7.29
616411	GC Electronics	Developer, positive type, concentrate, dilute 9:1*	6	11.95	10.95
616438	GC Electronics	Etching solution, PC board, ferric chloride solution*	32	24.95	22.45
616446	GC Electronics	Etching solution, PC board, ferric chloride solution*	128	49.95	44.95
139934	Techspray	Freeze spray, Envi-Ro-Tech, circuit chiller, CFC and HFC free*	8	15.75	14.49
652210	3M	Glue tip, scotch-weld tapered mixer tip #4902 for 2 part glue	—	1.49	1.19
615347	GC Electronics	Heat sink compound, 100% synthetic base stocks type 44	1†	7.95	7.49
615355	GC Electronics	Heat sink compound, 100% synthetic base stocks type 44	16†	42.95	38.95
236823	ValuePro	Heat sink compound, silicon based grease	0.35†	4.95	4.49
167249	Aavid Thermalloy	Heat sink compound, silicon based grease*	2†	8.95	7.95
169252	Techspray	Heat sink compound, silicon free	4†	23.95	21.95
259151	NTE	Heat sink compound, white gel, thermal grease 5 pack	0.35†	1.95	1.75
615304	GC Electronics	Heat sink compound, zinc oxide-filled silicon grease	16†	29.95	26.95
615312	GC Electronics	Heat sink compound, zinc oxide-filled silicon grease	0.23†	2.95	2.65
615321	GC Electronics	Heat sink compound, zinc oxide-filled silicon grease	1†	7.95	7.25
263572	Techspray	Isopropyl alcohol, plastic bottle*	16	12.95	11.95
2117157	Caig/DeoxIT	Lubricant, use with conductive plastic faders and controls*	0.5	11.95	10.95
645968	3M	Mask, respirator, recommend for use w/ fiberglass insulation/drywall sanding	—	4.95	4.49
481730	Techspray	Smoke detector test spray*	2	2.95	2.49
615806	GC Electronics	Solder flux remover & cleaner II, non ODC, aerosol can*	16	9.95	8.95
118041	Techspray	Solder flux remover, ECONOLINE, CFC free, aerosol can*	13.5	13.95	12.95
1586015	Chipquik	Solder flux, tack for rework, no clean, 10cc w/ syringe	0.34	14.95	13.49
481764	Techspray	Solder flux, dispensing pen, No-clean, resin & halide free leaves no residue*	0.38	7.49	6.95
615224	GC Electronics	Solder flux, liquid, non corrosive, solution of special rosin in alcohol*	2	8.95	7.95
615232	GC Electronics	Solder flux, liquid, non corrosive, solution of special rosin in alcohol*	16	24.95	22.45
615494	GC Electronics	Solder flux, paste, strong flux for soldering sheet metal & pipes, not for PCBs*	2.29	7.25	6.49
2094258	Caig/DeoxIT	Solder flux, rosin paste for electronic applications including PCBs	2	8.95	7.95
2117190	Caig/DeoxIT	Solder flux, rosin paste for electronic applications including PCBs	8	29.95	26.95
2113092	Chemtronics	Solder flux, rosin dispensing pen, for electronic applications including PCBs*	0.32	9.95	8.95
2110490	Caig/DeoxIT	Solder flux wash, Val-U series, fast evaporating and safe on plastic*	10	7.95	7.29
2098208	Chipquik	Solder paste, 63% SN, 37% PB, no clean 10cc w/ syringe	0.34	19.95	18.95
2098224	Chipquik	Solder paste, 63% SN, 37% PB, no clean 10cc w/ syringe, water washable	0.34	21.95	20.95
525851	Chemtronics	Cotton swabs, double headed, 6" handle, 100-pack	—	4.95	4.49


\* Shipped via UPS ground to continental U.S. only

\*\* Troy ounces

† Measured by weight



Test/Tools



### Helping You Find What You Need

Can't find the product you're looking for?  
Call us at 1-800-831-4242.

\* Workshop Chemicals — Enter Web Code YAQ

\* Heat Sink Compounds — Enter Web Code YBA

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Solderless Breadboards & Digital Labs

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE



PARALLAX

## Solderless Breadboards

★ Web Code: HAC

The screen-printed color coordinates are suitable for many types of digital and analog prototyping and circuit design. Larger models feature a heavy-duty aluminum backing with binding posts. Use Jameco's AC/DC breadboard power supply, P/N 77682 (below).

- Accepts most electronic components, including integrated circuits and transistors for digital and/or analog circuitry
- 0.1" hole spacing
- Pins are identified by numbered rows and columns
- Ideal for high frequency and low noise circuits
- One-year warranty

**Attention Educators! Buy jumper wire on pg 163 in bulk and SAVE! (see Solid Hook-up Wire on page 53)**



20670



20758



20812

### WBU5 Series Key Features:

- Horizontal assembly corresponds to the operation flow design of the PC boards for handy operation
- Round hole design makes the electric connection better
- Formed with V-shaped cross-sectional groove, which allows DIP IC pins to be inserted across two parts and to increase the rate of utilization due to small pitch
- Dovetail protrusions and recesses designed to connect two adjacent parts tightly together

### JE Series Key Features:

- Use to breadboard and debug circuit designs
- Low static, plastic body – CMOS safe
- Nickel-plated clips designed to withstand up to 5,000 insertion cycles
- Breadboard strips connect together to form larger working areas
- Components are easily interconnected using 20-28 AWG wire (P/N 19290 & 20080, pg 163)
- Some models feature heavy-duty aluminum backings (20758, 136901, 20812)

Part No.	Mfr.	Cross Ref. No.	Terminal Strips	Bus Strips	Contact Points	Binding Posts	Breadboard Size (L" x W")	Baseplate Size (L" x W")	Weight (lbs.)	Pricing			
										1	10	50	100
94457	ValuePro	JE19R	0	1	100	0	6.5 x 0.4	—	0.04	\$3.49	\$3.19	\$2.89	\$2.65
2109801	Parallax	700-00012R	1	0	170	0	1.8 x 1.4	—	0.03	4.95	4.69	4.49	4.19
2125018	Busboard	BB300	1	2	300	0	3.3 x 1.4	—	0.04	4.49	4.25	3.95	3.75
20601	ValuePro	JE21R	1	2	400	0	3.3 x 2.1	—	0.13	5.95	5.49	4.95	4.49
20670	ValuePro	JE22R	1	0	630	0	6.5 x 1.4	—	0.20	6.95	6.29	5.49	4.95
194299	ValuePro	JE37R	1	2	640	0	6.9 x 2.4	—	0.25	9.95	8.95	7.95	6.95
2125026	Busboard	BB8301*	1	2	830	0	0.65 x 2.2	—	0.15	7.95	7.49	6.95	6.49
20723	ValuePro	JE23R	1	2	830	0	6.5 x 2.2	6.5 x 2.1	0.30	9.95	8.95	7.95	6.95
194272	ValuePro	JE34R	2	3	1,560	3	6.5 x 4.0	8.5 x 4.7	0.73	19.95	17.95	15.95	13.49
20758	ValuePro	JE24R	2	1	1,360	2	6.5 x 3.1	8.5 x 4.0	0.60	14.95	13.49	11.95	10.95
136901	ValuePro	WBU504†	2	3	1,855	4	5.5 x 5.5	7.4 x 6.3	0.90	19.95	17.95	15.95	13.95
20774	ValuePro	JE25R	2	4	1,660	3	6.5 x 4.3	8.5 x 5.1	0.80	20.95	18.95	16.95	14.95
20791	ValuePro	JE26R	3	5	2,390	4	6.9 x 5.8	9.1 x 6.9	1.10	29.95	27.95	24.95	21.95
20812	ValuePro	JE27R	4	7	3,220	4	7.3 x 7.5	9.5 x 8.3	1.40	36.95	33.95	30.95	27.95

\*Transparent

† WBU5 and JE series do not interconnect

### Breadboard Pin to Breadboard Pin Test Leads

Part No.	Mfr.	Description	1	10	50
421315	ValuePro	Breadboard pin to breadboard pin test leads (20 pk), 4 each color-coded (red, yellow, blue, black, white), 24 AWG wire, 5.9" wire length (150mm)	\$9.95	\$8.95	\$7.95

## Digital Design Lab

Our most popular digital lab!

- 1580 tie points
- Fixed power supply: ±5VDC @ 1.0A
- Two 7-segment displays (digit height: 0.3")
- DCV digital multimeter
- One-year warranty

### Solderless Breadboard

- Interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

### DC Power Supplies

- DC supplies equipped with short-circuit protection
- Variable DC power: 0 to +15V & 0 to -15V @ 0.5A

### Function Generator (5 ranges)

- Sine wave output: 0-8 Vp-p variable
- Frequency ranges: 1Hz-10Hz, 10Hz-100Hz, 100Hz-1kHz, 1kHz-10kHz, 10kHz-100kHz
- Triangle wave output: 6Vp-p fixed
- Square wave output: ±5V fixed

Includes: Power cord and manual

Part No.	Description	Size (W" x D" x H")	Wt. (lbs.)	1	5
75839	Digital lab	10.6 x 13.3 x 5.0	8.1	\$379.95	\$359.95
1952599	Replacement breadboard	4.5 x 6.75 x 0.37	0.5	29.95	26.95



International 115/220VAC Switchable

## RFID Design Lab

The RFID design lab will read, detect and verify UID data within the first EEPROM, while automatically storing into the second EEPROM the date and time as a login record. If there is no record of the UID in the database, it will generate a red light and sound off a buzzer. By default the induction board is set to use a USB interface, but can be configured for serial interface.

- LP-2010 TRF7960 induction board
- 16 character x 2-line LCD monitor
- RS-232 or USB interface for RFID chip-board
- Status lamp (green/yellow/orange/red) and buzzer
- 2 individual relays w/ connector for open/close operation

Includes: Power cables, USB-A to USB-B cable, CD w/ demo program & manual

Part No.	Product No.	Size (W" x D" x H")	1	5
2128104	LP-2010R	12.8 x 9 x 3.5	\$549.95	\$524.95



NEW MARKED IN PINK

## Digital/Analog Design Labs

### Solderless Breadboard

- 2712 connections; fits AWG #22-30 (0.3-0.8mm)

### DC Power Supplies

- Fixed DC output: +5VDC @ 1A; -5VDC @ 300mA
- Variable DC output: 0 to ±15V @ 500mA (P/N 136267) and 0 to ±15V @ 1A (P/N 1919211)
- Input power: 110/220VAC @ 50-60Hz (switchable)

### Function Generator (5 Ranges)

- Triangle wave output: 0-6 Vpp variable
- Frequency ranges: 1Hz-10Hz, 10Hz-100Hz, 100Hz-1kHz, 1kHz-10kHz, 10kHz-100kHz
- Sine & square wave output: 0-8 Vpp variable
- TTL mode output: 5Vpp (P/N 1919211 only)

- Other Features: 2.5" dia., 8Ω, 25W speaker
- 2 banana sockets, 2 BNC jacks
- 2 pulse switches (2 sets of outputs: A, A, B, B)
- 2.5" dia., 8Ω, 25W speaker
- Two 7-segment LED displays (digit height: 0.3")
- 2 banana sockets, 2 BNC jacks
- 136267: 8 data switches
- 8-bit red LEDs
- One-year warranty
- 1919211: 16 data switches
- 16 red LEDs

Includes: Power cord and manual jumper wires (P/N 1919211 only)

Part No.	Description	Size (W" x D" x H")	Wt. (lbs.)	1	5
136267	Digital/analog lab	12.8 x 9.8 x 3.7	8.5	\$449.95	\$424.95
1919211	Digital/analog lab	13.0" x 10.5" x 3.5"	9.1	475.95	429.95
319214	Replacement for P/N 136267R	6.7 x 6.5 x 0.4	0.5	39.95	35.95



136267

## AC/DC Power Supply

### Ideal for Breadboards on above

With built-in short-proof regulated power supplies.

- Input power: 120/220VAC @ 50-60Hz (switchable)
- Indicator lamps and power fuses
- Just plug in & start to use
- Compact & lightweight
- For both digital and analog circuits
- Color: beige
- Compatible with test leads P/N 77842, pg 148
- Size: 7.4"W x 5.5"D x 2.6"H
- One-year warranty



International 120/220VAC Switchable

Output Specifications:  
+5VDC @ 1A; -5V @ 300mA fixed;  
0 to +15VDC @ 500mA variable;  
0 to -15VDC @ 300mA variable;  
12-6-0-6-12 tapped VAC, 300mA fixed

Part No.	Description	Weight	1	5
77682	Power supply	5.5 lbs.	\$149.95	\$139.95

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

## Powered Project Breadboards

- Solderless breadboard with 2420 tie points
- Power switch with light
- Outputs are short-circuit protected

\* Web Code: XAT

Includes: Power cord

136259:

- Fixed power: +5V @ 1A; variable power: 0 to ±15VDC @ 500mA
- Edge plate for non-DIP size components
- Input power: 120/220VAC @ 50-60Hz (switchable)
- Replacement fuse: P/N 103908, pg 37
- One-year warranty
- Breadboard size: 7.4"L x 6.8"W
- Back panel has ground terminal

1942163:

- Input power: 110VAC or 220VAC @ 50-60Hz (switch selectable)
- Triple output power supply: fixed 5VDC @ 1A; 0 to +16VDC @ 500mA (adjustable); 0 to -16VDC @ 500mA (adjustable)
- Grounded case
- Overload protection
- Fuse protection
- Lighted power switch

Part No.	Description	Overall Size	Wt. (lbs.)	1	5
136259	15VDC @ 500mA	9.8"L x 8.0"W x 2.6"H	6.8	\$149.95	\$135.95
1942163	5VDC @ 1A & 16VDC @ 500mA	10.3"L x 8.8"W x 3.3"H	6.0	109.95	99.95

136259

1942163

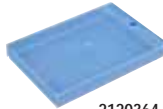
[www.Jameco.com](http://www.Jameco.com)

We offer data sheets for most of the products we carry.  
Find them easily on the product specification page.



## Bug Boxes

- Anti-static plastic
- Box size: 4.9"L x 3.3"W x 0.6"H
- Designed to store all types of components



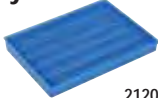
2120364

Part No.	Description	1	10	100
2115670	30 compartments (white)	\$4.95	\$4.49	\$3.95
2120364	Open/sliding lid (blue)	4.95	4.49	3.95
2120436	30 compartments (clear)	4.95	4.49	3.95



## Bug Trays

- Tray size: 4.8"L x 3.6"W x 0.5"H
- 2120372: 5 compartments (4.6"L x 0.58"W x 0.3"H ea.)



2120372

Part No.	Description	1	10	100
2120372	Divided bug tray	\$4.95	\$4.49	\$3.95
2120381	Open bug tray	4.95	4.49	3.95



## Plastic Flip Top Case for SMDs

- 128 compartments
- 8 rows x 16 columns grid
- Flip top openings on each bin
- Padded cover locks bins closed
- Perfect match to store P/N 156882 SMD resistor assortment, pg 48



JAMECO EXCLUSIVE

Includes: Labels for each bin

Part No.	Size (L" x W" x H")	1	10
164267	11.0 x 8.3 x 1.7	\$49.95	\$44.95

## Plastic Flip Top Boxes

- Clear plastic box with a clear plastic lid and removable dividers
- 100256: Size: 8.4"L x 4.5"W x 1.4"H
- 148902: Size: 10.2"L x 4.7"W x 1.6"H
- 2095955: Size: 7.7"L x 5.3"W x 1.4"H
- 11 individual rounded compartments



100256

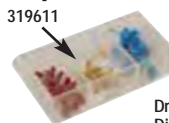
Part No.	Compartment	1	10	100
100256	18 (1.4" x 1.5" each)	\$2.29	\$1.95	\$1.79
148902	12 (1.7" x 2.3" each)	3.95	3.49	2.95
2095955	11 (10-1.75"x1.5", 1-3.5"x1.5")	1.95	1.75	1.69

## Component Cabinets

JAMECO ValuePro



319600



319611

319601 Components not included  
Drawer (319601)  
Divider (319611)

- 319600:
  - Drawer can be divided into 3 sections (clear)
  - Wall mountable cabinet (ABS black)
  - Cabinet size: 6.0"D x 14.7"W x 7.4"H

Includes: 20 clear plastic drawers, 20 dividers and 30 adhesive I.D. labels

319601: 5.5"L x 2.7"W x 1.5"H

319611: 2.5"W x 1.2"H

2108605:

- Counter-top design (ABS blue)
- Cabinet size: 7.0"D x 17.6"W x 9.8"H



2108605

Includes:

- 14 clear plastic drawers in 3 sizes:
  - 10 ea. 6.375"L x 3.375"W x 1.5"H,
  - 3 ea. 6.375"L x 8.75"W x 1.5"H,
  - 1 ea. 6.375"L x 8.75"W x 3.25"H

\* Order in multiples of 10

Part No.	Description	1	10	100
319600	20-drawer cabinet	\$16.95	\$15.49	\$13.95
2108605	14-drawer cabinet	24.95	22.95	19.95
319601	Drawer for cabinet	.49	.45	.39
319611	Drawer divider for cabinet	*	.12	.10

JAMECO ValuePro

## Electronic Component Kits

- 2129115: 200 pieces: fuses, battery holders, batteries, potentiometers, loudspeaker, capacitors, resistors, photoresistors, transistors, switches, LEDs, clips, jumper and hookup wires, breadboard, AC adapter, and deluxe component case

- 2129123: 100 pieces: voltage regulators, relays, diodes, switches, potentiometers, logic chips, DIP sockets, inverters, counters, timers, headers, 3-digit display, numeric keypad, DC power jacks, binding posts, solder tube, heatshrink tubing, printed circuit boards, clips, IC inserter, IC extractor, anti-static wristband, helping-hands, project box, deluxe component case.

- 2129131: Clear flip-top lid w/ 26 built-in compartments, case with 8 interchangeable compartments, snap-lock closure

- Color: black with clear lid
- Size: 15"L x 11.25"W x 3.75"H

Part No.	Mfr. Product No.	Description	1	5	25
2129115	ECP-1	Electronic component kit pack 1	\$109.95	\$99.95	\$89.95
2129123	ECP-2	Electronic component kit pack 2	129.95	119.95	109.95
2129131	ECP-1-46	Deluxe carrying case	19.95	18.95	17.95

EXTECH INSTRUMENTS

## Resistance & Capacitance Decade Substitution Boxes

Wide-range decade substitution boxes for product design or calibration checks.

- Light durable construction
- Case may be grounded separately
- Three binding posts permit isolated substitutions
- Size: 4.7"W x 5.7"H x 1.4"D
- Weight: 0.7 lbs.

- 211668: 1% resistance substitution from 1Ω to 11.111110MΩ
- 7 decade ranges of resistance
- Values can be changed in 1Ω increments
- @ 3 watts

- 211676: 5% capacitance substitution from 100pF to 11.111μF

- 5 decade ranges of capacitance
- @ 50VDC

Part No.	Description	1	5
211668	Resistance	\$99.95	\$89.95
211676	Capacitance	129.95	119.95



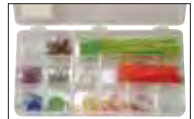
211668



211676

## Wire Jumper Kits

- 0.1" to 5.0" lengths (14 sizes)
- Pre-stripped/preformed
- Clear plastic durable case
- 22 AWG solid wire jumpers in 10 colors



- 2127718: 70 pieces, 5 of each length
- 2096018: 140 pieces, 10 of each length
- 19290: 350 pieces, 25 of each length
- 20080: 350 pieces, refill for 19290

\* Web Code: LAS

Part No.	Description	1	10	50	100
2127718	70-piece kit	\$7.95	\$7.29	\$6.59	\$5.95
2096018	140-piece kit	7.95	7.29	6.59	5.95
19290	350-piece kit	16.95	14.95	12.95	10.95
20080	Refill for 19290	11.95	10.95	8.95	6.95

## Reinforced Jumper Wires

- 24 AWG-300 volts
- Reinforced pin ends for durability
- 10 pack assortment: 2 each yellow, white, red, black & blue



\* Web Code: LAS

Part No.	Product No.	Length (mm/inch)	1	10	100
126360	JW50	50/1.97	\$3.95	\$3.59	\$3.19
126342	JW100	100/3.94	5.95	5.39	4.95
126325	JW200	200/7.87	6.95	6.29	5.49



2129115 Top



2129115 Bottom



2129123 Top



2129123 Bottom

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above





## Enclosures

The prototype builder boards on pg 165 are designed to fit into our ABS plastic and aluminum enclosures, metal cabinets and heavy-duty instrument cases. The pre-cut boards have 2 or 4 mounting holes compatible with the PC board mounting hardware listed on pg 165 (P/N 106551).

**Board description:** Laminated glass epoxy 1/16" thick fire retardant per FR-4 specs. Copper-clad and solder mask one side. Drilled holes: .035" diameter on .080" square pad. Pads spaced on .10" x .10" grid.

See page 51 for Knobs and 97 Hardware



\*Web Code: UAL



\*All boards sold separately, see pg 165; multiple boards shown

## ABS Plastic Enclosures

Lid for precision fit (adds 0.4" height). Complete with four screws and lid. All sizes below are interior dimensions.

Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
18922	H2855	3.1" x 2.0" x 0.9"	\$3.49	\$3.19	\$2.89	\$2.49
18914	H2853	4.9" x 2.5" x 1.5"	3.95	3.59	3.19	2.75
18893	H2851	6.0" x 3.5" x 1.9"	4.95	4.49	3.95	3.49
18906	H2852	7.5" x 4.3" x 2.3"	7.49	6.79	5.95	5.49

## ABS Enclosures w/ Clear Tops

Includes screws for mounting boards, rubber gasket for a tight seal on your equipment & drilled holes for mounting.

Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
141832	203C1	4.9" x 3.4" x 2.4"	\$9.95	\$8.95	\$7.95	\$7.29
141841	203D1	6.5" x 3.4" x 2.2"	9.95	8.95	8.49	7.95
141859	203F1	7.3" x 5.7" x 3.0"	13.95	12.95	11.95	10.95

## Plasticase™ Style I Enclosures

Durable, self-extinguishing, ABS plastic material with textured surface on lid and base. 4-piece set that snaps together for saving time. Internal PCB mounting bosses on lid & base.

Part No.	Cross Ref. No.	Size (L x W x H)	1	10	50
2127902	PC-11475	4.1" x 1.6" x 1.0"	\$3.95	\$3.59	\$3.25
2127911	PC-11476	5.1" x 3.0" x 1.2"	4.95	4.69	4.25
2127929	PC-11477	6.1" x 3.6" x 1.6"	4.95	4.69	4.25

## Plastic PottingBoxes Style C Enclosures

Made of tough, lightweight ABS thermoplastic.

- Flammability rating: UL94V-0 • 2127881: Smooth black finish
- 2127865/2127890: Textured black finish

Part No.	Cross Ref. No.	Size (L x W x H)	1	10	50
2127881	PB-1558-BF	2.0" x 1.5" x 1.0"	\$12.95	\$11.95	\$10.95
2127865	PB-1554-BF	3.0" x 2.0" x 1.0"	19.95	17.95	15.95
2127890	PB-1559-BF	3.0" x 2.0" x 1.5"	18.95	16.95	14.95



## Specialty Enclosures

## A Series — with PCB Boss Mounts

- 4-piece design • Interchangeable end panel
- 4-insert areas for customized I-plates

Part No.	Mfr. Part No.	Color	Batt. Holder	Size (L" x W" x H")	1	10	100
373456	A-42-BK	Black	None	7.12 x 5.00 x 1.62	\$14.49	\$12.95	\$11.49

## C Series — with Pinch-Fit for PCBs

- Simple 2-piece design • 2-insert areas for customized I-plates

Part No.	Mfr. Part No.	Color	Size (L" x W" x H")	1	10	100
675331	C-4-BK	Black	2.13 x 1.38 x 0.58	\$2.95	\$2.69	\$2.39

## H Series — Handheld with Built-in Battery Holder

- Ergonomic handheld design • 5-insert areas for customized I-plates

Part No.	Mfr. Part No.	Color	Batt. Holder	Size (L" x W" x H")	1	10	100
374635	H-65-9V-BK	Black	1-9V	4.94 x 2.75 x 0.94	\$9.95	\$8.95	\$7.95
374942	H-67-9V-BK	Black	1-9V	4.94 x 2.75 x 1.28	8.95	7.95	6.95

## R Series — Waterproof Cases to 30 Feet

- Dustproof, corrosion proof, airtight and UV protected with lifetime guarantee
- Auto pressure purge valve, secure lock holes, nut & bolt security & foam-filled

Part No.	Mfr. Part No.	Color	Size (L" x W" x H")	1	10	100
675614	R-120F	Black	8.7 x 7.5 x 3.9	\$15.95	\$14.95	\$13.95

## Metal Enclosures

- Mounting screws and rubber feet included
- Glossy black textured steel top cover and ivory aluminum base

Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
208901	B2741A	4.0" x 3.3" x 2.2"	\$6.95	\$6.49	\$5.95	\$5.49
208911	B2743A	5.9" x 5.3" x 3.0"	9.95	8.95	7.95	6.95
209350	B2746A	6.3" x 7.8" x 2.5"	10.95	9.95	8.95	7.95
208929	B2744A	7.3" x 6.3" x 2.8"	11.95	10.95	9.95	8.95
209358	B2747A	7.5" x 9.8" x 3.2"	14.95	13.49	11.95	10.95

## ABS Heavy-Duty Instrument Cases

P/N 18877 includes ventilation and speaker sound slots.

Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
18869	H2505	7.9" x 6.3" x 2.5"	\$8.95	\$7.95	\$7.19	\$6.49
18877	H2507	10.0" x 7.5" x 3.1"	9.95	8.95	7.95	7.29

## Die-Cast Aluminum Enclosures

Made from aluminum, an excellent heat-sink, these cases are great for high temp circuits (up to 600°C). Includes screws.

Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
11957	B5002	3.9" x 2.0" x 1.0"	\$6.95	\$6.29	\$5.69	\$4.95
11965	B5004	4.7" x 2.6" x 1.4"	8.95	8.29	7.49	6.59
11973	B5006	7.5" x 4.3" x 2.4"	17.95	16.49	14.95	13.49

## Aluminum Enclosures

The enclosure comes in two pieces which slide together.

Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
11870	H2300	4.0" x 2.0" x 2.8"	\$5.95	\$5.49	\$4.95	\$3.95
11886	H2320	5.0" x 4.0" x 3.0"	8.95	7.95	6.95	5.95
11894	H2335	7.0" x 6.2" x 4.6"	10.95	9.95	8.95	7.95

\*Web Code: UAL



Please Note: Images used are representative. Color and shapes may vary by model.

## M Series — Handheld with Built-in Battery Holder

\* Translucent

- Streamlined handheld design • 5-insert areas for customized I-plates

Part No.	Mfr. Part No.	Color	Size (L" x W" x H")	1	10	100
694807	M-6-TR-GR	Green*	4.15 x 2.40 x 0.85	\$11.95	\$10.95	\$9.95

## S Series — Two-piece Standard Enclosures

- 2-piece design • 2-insert areas for customized I-plates

† Insert on top is recessed 0.015" on all models designated with an "I"

Part No.	Mfr. Part No.	Color	Batt. Holder	Size (L" x W" x H")	1	10	100
675454	110-I-BK	Black	None	3.61 x 2.27 x 1.01	\$3.95	\$3.49	\$2.95
675462	111-BK	Black	None	3.61 x 2.27 x 1.51	4.49	3.95	3.49
675489	131-BK	Black	None	4.38 x 3.25 x 1.51	5.95	5.49	4.95
675500	151-BK	Black	None	5.63 x 3.25 x 1.51	6.95	6.29	5.59
675593	251-BK	Black	1-9V	5.63 x 3.25 x 1.51	7.95	7.29	6.49
675526	171-BK	Black	None	6.88 x 4.88 x 1.51	9.95	8.95	7.95
675542	173-BK	Black	None	6.88 x 4.88 x 2.51	10.95	9.95	8.95
675551	193-BK	Black	None	9.50 x 6.34 x 2.51	15.95	13.49	11.95





## General Purpose Prototyping Boards

Select the prototype board that fits your needs from our comprehensive product listing. Prototyping boards with punched holes are convenient, economical tools for assembling circuit components and trying cost-effective alternatives to custom designs.

- 0.062" board thickness
- 0.1" hole spacing
- 0.08" pad size
- PCB material epoxy glass
- Plated through pads are double-sided

\*Web Code: LAG

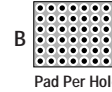
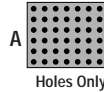
See PCB enclosures on pg 164, and mounting hardware (recommend P/N 106551) below



Board Outline



Circuit Patterns



Part No.	Cross Ref. No.	Size (W" x L")	Fits Enclosure(s) (see page 164)	Circuit Pattern	Hole Pads	# Holes x Dia. ↑	Power/Ground Buses	Connector I/O or Edge	# Mounting Holes x Dia.	Wt. (lbs.)	Pricing			
											1	10	50	100
105102	5002PCB	1.50 x 3.50	11957	C	Single-sided	365 x .038"	4	None	2 x .140"	.02	\$6.95	\$5.95	\$4.95	\$3.95
105100	2855PCB	1.60 x 2.70	18922	B	Single-sided	288 x .035"	None	None	2 x .115"	.02	5.49	4.95	4.49	3.95
105129	2853PCB	2.00 x 4.40	18914, 11965	C	Single-sided	669 x .038"	4	None	4 x .140"	.03	8.49	7.59	6.75	5.95
105111	2300PCB	2.40 x 3.40	11870	C	Single-sided	637 x .038"	4	None	2 x .140"	.03	7.95	7.19	6.49	5.95
263207	PCB-463	2.40 x 4.10	—	B	Plated through	640 x .042"	None	None	4 x .120"	.05	8.95	7.95	6.95	5.95
28178	PCB1	2.42 x 4.10	—	C	Plated through	674 x .040"	None	None	4 x .120"	.04	6.95	6.25	5.59	4.95
263215	PCB-858	2.50 x 4.20	18914	D	Plated through	640 x .042"	None	D-sub 25/USB/RJ45	4 x .120"	.05	8.95	7.95	6.95	5.95
105153	2851PCB	3.10 x 5.50	18893	C	Single-sided	1450 x .035"	7	None	4 x .140"	.07	9.95	8.95	7.95	6.95
263223	PCB-69	3.30 x 3.70	—	B	Single-sided	900 x .042"	None	None	4 x .120"	.05	8.95	7.95	6.95	5.95
105137	2320PCB	3.30 x 4.50	11886	C	Single-sided	1266 x .035"	4	None	4 x .140"	.06	8.95	7.95	6.95	5.95
105162	2852PCB	3.60 x 7.00	18906, 11973	B	Single-sided	2225 x .035"	4	None	4 x .140"	.10	13.95	12.49	10.95	9.95
21531	JE417	4.20 x 6.50	—	C	Plated through	2126 x .042"	2	D-sub 9/15/25/37	8 x .120"	.12	14.95	13.49	11.95	10.95
206587	2746PCB	4.30 x 6.80	209350	C	Single-sided	2550 x .042"	5	None	4 x .140"	.07	9.95	8.95	7.95	6.95
21435	JE401(8001)	4.50 x 6.50	18869	B/D	Single-sided	2360 x .042"	2	None	None	.12	16.95	15.49	13.95	11.95
21452	JE405(8003)	4.50 x 6.50	18869	C	Single-sided	2360 x .042"	1	None	None	.12	16.95	15.49	13.95	11.95
206579	2743PCB	4.60 x 4.30	208911	C	Single-sided	1684 x .042"	5	None	4 x .140"	.07	7.95	6.95	5.95	5.29
105180	2505PCB	5.00 x 6.50	18869	C	Single-sided	2829 x .035"	7	None	8 x .120"	.13	13.95	12.49	10.95	9.95
28194	PCB3	5.00 x 8.00	18877	C	Plated through	3705 x .042"	4	Mounting area-I/O	4 x .120"	.17	21.95	20.95	19.95	18.95
21478	JE407(8006)	5.00 x 13.25	—	B	Plated through	6063 x .038"	None	None	8 x .120"	.28	39.95	35.95	32.95	28.95
206594	2747PCB	5.50 x 8.00	209358	C	Single-sided	3906 x .042"	5	None	4 x .140"	1.0	11.95	10.95	9.95	8.95
105187	2507PCB	6.10 x 8.80	18877	C	Single-sided	4771 x .035"	7	None	8 x .140"	.21	16.95	15.49	13.95	11.95
263232	PCB-7038	8.30 x 11.9	—	B	Plated through	8819 x .042"	10	5	4 x .115"	.40	39.95	35.95	31.95	27.95



## Vector Prototyping Boards

43140	64P44XXXP	4.50 x 6.50	18869	A	Drilled only	2860 x .042"	None	None	None	.09	\$8.95	\$8.49	\$7.95	\$7.49
52943	84P44WE	4.50 x 8.50	18877	A	Drilled only	3740 x .042"	None	None	None	.15	12.95	12.45	11.95	11.49
37612	169P44XXXP	4.50 x 17.0	—	A	Drilled only	7524 x .042"	None	None	None	.25	14.95	13.95	13.49	12.95
37621	169P84WE	8.50 x 17.0	—	A	Drilled only	14,448 x .042"	None	None	None	.53	29.95	28.95	27.95	26.95
106551	20 pieces: PC board mounting hardware (4 spacers, 8 screws and 8 washers) used with all above boards (manufacturer may vary)										2.95	2.59	2.29	1.95

\* PC/XT 8-bit # PCB material: phenolic † All 0.042" Diameter hole boards use terminals P/Ns 34147, 34155 and 34163 (below left)



## BusBoard Prototyping Boards

BPS prototyping boards have unique board patterns that help speed-up the construction of your electronic prototypes and circuits. The breadboards and protoboards have the same pin outs so you can transfer your design directly from the breadboard to the solderable protoboard.

- Precision-drilled
- Precision-etched

### Plug-In Breadboards

These solderless "plug-in" breadboards provide a quick way to build and test circuits and can be transferred directly to the proto boards right.

Part No.	Product No.	Size (L" x W" x D")	Points	1	10	50
2125018	BB300	3.3 x 1.4 x 0.3	300	\$4.49	\$4.25	\$3.95
20601	BB400	3.3 x 2.1 x 0.3	400	5.95	5.49	4.95
2125026	BB830T	6.5 x 2.2 x 0.3	830	7.95	7.49	6.95



## Wire Wrap and Push-In Terminals

For .042" Diameter Holes

- Material: copper alloy
- Prebagged 100 pcs.

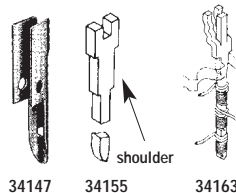
34147: Push-In Micro-Klip Terminals

34155: Miniwrap Wiring Terminals

- Two-prong with square tail for wire wrapping
- Shoulder: .045"

34163: Klipwrap Wiring Terminals

- Three-prong with square tail for wire wrapping



Part No.	Mfr. Part No.	Height Above .062" Board	Length Below .062" Board	Post Size	Overall Length	100 pc. units	
						1	10
34147	T421-1/C	.200	.097	.032" x .045"	.36"	\$8.95	\$7.95
34155	T44/C	.065	.530	.025" Sq.	.69"	9.95	8.95
34163	T49/C	.200	.530	.025" Sq.	.83"	17.95	16.49

### Solderable PC Protoboards

- High-quality FR4 glass epoxy PCBs for long life
- Anti-tarnish protective coating for easy soldering

Part No.	Product No.	Size (L" x W" x D")	Points	1	10	50
2125042	SB300	3.0 x 1.20 x 0.06	300	\$3.95	\$3.69	\$3.39
2125051	SB400	3.0 x 1.90 x 0.06	400	4.95	4.59	4.25
2125034	BR1	7.0 x 1.85 x 0.06	830	6.49	6.19	5.89



## BusBoard Prototyping Kits

These all in one prototype kits are equipped with a PCB that is designed to fit the enclosure.

No cutting or drilling required.

- Precision-drilled
- Precision-etched
- Built-in standoffs
- Self tapping screws included
- Anti-tarnish protective coating for easy soldering
- High-quality FR4 glass epoxy PCBs for long life

Part No.	Description	Size (L" x W" x D")	2123881 in use		2123899 in use	
			1	10	50	100
2123872	Aluminum enclosure	4.67 x 3.68 x 1.18 ..	\$21.95	\$19.95	\$18.95	
2123881	Plastic enclosure	2.20 x 2.60 x 1.10 ..	6.95	6.59	6.29	
2123899	Plastic encl. w/ battery comp.	3.60 x 2.60 x 1.10 ..	8.39	7.89	7.39	

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

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Order by Phone at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

## PT Series Prototyping Boards

\*Web Code: LAG

Accommodates any mixture of 0.3" to 0.6" wide ICs with any number of pins, and any combination of resistors, capacitors, diodes, transistors, etc.  
• 4 power buses that connect to a power jack (recommended P/Ns 101178 & 101186, pg 120)

Part No.	Product No.	Size	Hole Pads	# Holes x Dia.	# Mntg Holes x Dia.	1	10	50
645677	PT-35X25	3.5"L x 2.5"W	Double-sided	456 x .036"	4 x .140"	\$18.95	\$16.49	\$14.95
262511	PT-5X37	5"L x 3.7"W	Double-sided	1135 x .036"	4 x .140"	25.95	23.95	21.95
262537	PT-6X49	6"L x 4.9"W	Double-sided	1931 x .036"	4 x .140"	36.95	33.95	29.95



262511

262537

645677

## Positive Pre-Sensitized Circuit Boards

1 oz. copper on 1/16" epoxy glass board, UL94V-0 rated. The peel-off coating protects the board while handling or cutting prior to exposure.

\*Web Code: CTB

Part No.	Mfr. Part No.	Description	Size	1	10	50
616251	21-334	Single-sided	4" x 6"	\$5.95	\$5.49	\$4.95
616260	21-336	Single-sided	6" x 6"	7.95	7.29	6.49
616307	21-353	Double-sided	6" x 9"	13.95	12.95	11.95



## Prototype Boards

\*Web Code: LAG

### Export Design Phenolic Prototype Board

Accommodates all types of IC's, transistor packages and passive parts. Lands and bus bars are tin plated. 0.1" centers.

Part No.	Mfr. Part No.	Size (W" x L" x Thick")	1	10	50
616631	22-504	3 1/8 x 5 1/16 x 1/16	\$6.95	\$6.29	\$5.69

### Experimenter's Phenolic Prototype Boards

616649: • Copper plated with 94 five-point terminals and two 40-point bus strips

616673: • Single land pattern

Part No.	Mfr. Part No.	Size (W" x L" x Thick")	1	10	50
616649	22-508	2.0 x 6.0 x 1/16"	\$13.95	\$12.95	\$11.95
616673	22-512	3 3/8 x 6.75 x 1/16	6.95	6.49	5.95



616649

616673

### Perforated Bare Phenolic Prototype Boards

Unexcelled for prototypes, breadboards, hobby or science projects. Bare phenolic board with no copper clad.

616681: 0.1" spacing 616690: 0.265" spacing

Part No.	Mfr. Part No.	Size (W" x L" x Thick")	Hole Dia.	1	10	50
616681	22-514	2.25 x 6.0 x 1/16	.093	\$7.49	\$6.95	\$6.49
616690	22-516	4.50 x 6.0 x 1/16	.042	5.95	5.49	4.95



### Versa Strip Phenolic Prototype Board

• Alpha-numeric indexing • 0.035" diameter holes  
• Silver-plated land patterns • 0.1" centers

Part No.	Mfr. Part No.	Size (W" x L" x Thick")	1	10	50
616622	22-502	3.5 x 6.0 x 1/16	\$11.95	\$10.95	\$9.95



### Plug-In IC Phenolic Prototype Board

ICs plug directly into board. It's 0.1" spacing accepts 14-pin up to 20-pin ICs. Silver plated lands with 24-way card edge connector plug on one end. 0.035" diameter holes.

Part No.	Mfr. Part No.	Size (W" x L" x Thick")	1	10	50
616614	22-500	2.38 x 4.0 x 1/16	\$5.95	\$5.49	\$4.95



## Copper-Plated Blank Circuit Boards

Ideal for hobbyists & students doing prototypes of circuits. Both single and double-sided boards are copper plated.  
• 1.6mm (1/16") thick • PCB material: phenolic

\*Web Code: CTB

Part No.	Cross Ref. No.	Description	Fig.	Size (L" x W")	1	10	50
169279	PCBS3X6	Single-sided	3	2.9 x 5.9	\$2.95	\$2.69	\$2.39
169288	PCBS6X6	Single-sided	2	5.9 x 5.9	3.95	3.49	2.95
169296	PCBS12X12	Single-sided	1	11.8 x 11.8	9.95	8.95	7.95
169309	PCBD3X6	Double-sided	3	2.9 x 5.9	3.49	2.95	2.49
169317	PCBD6X6	Double-sided	2	5.9 x 5.9	5.95	5.49	4.95
169325	PCBD12X12	Double-sided	1	11.8 x 11.8	19.95	17.95	15.95

Fig. 1

Fig. 2

Fig. 3

## Bare Copper Circuit Boards – Single Sided

1 oz. copper on base of either fiberglass or reinforced epoxy board.

Part No.	Mfr. Part No.	Size (W" x L" x T")	1	10	50
616471	22-250	3" x 5" x 1/16"	\$3.95	\$3.59	\$3.29
616489	22-260	4" x 6" x 1/16"	4.49	3.95	3.49
616497	22-261	6" x 6" x 1/16"	4.95	4.59	4.25
616500	22-263	6" x 9" x 1/16"	5.95	5.49	4.95
616518	22-264	8" x 10" x 1/16"	9.95	8.95	7.95
616534	22-268	11" x 14" x 1/16"	17.95	16.95	15.95

\*Web Code: CTB



616518

## Photofabrication, Exposure & Economy Etching Kit

The kits below allow you to produce professional printed circuit boards quickly and at a lower cost than a professional design house.

### 2121017: Photofabrication kit

- 3 single sided presensitized PCB boards (3" x 5", 4" x 6" and 6" x 6")
- Instruction sheet
- Chemicals: developer and ferric chloride
- Foam brushes, development tray, rubber gloves

2121017



### 2121025: Exposure kit

- Fluorescent light fixture w/ stand
- Daylight fluorescent bulb
- Acrylic weight for artwork
- Instruction sheet

\*Web Code: MGC

2121025



### 2121033: Economy Etching kit

- 5 liter etching tank
- Instruction sheet
- Air pump and tubing, spraying unit, vinyl gloves

2121033



Part No.	Description	1	5
2121017	416-K photofabrication kit *	\$69.95	\$64.95
2121025	416-X exposure kit	69.95	64.95
2121033	416-ES economy etching kit	69.95	64.95

\*Shipped via UPS ground – available continental U.S. only



## Prototyping Developer Kit

The Jameco prototyping developer kit includes everything you need to get started with prototyping your own PCB.

- 2 precoated circuit boards, 3" x 4" x 1/16" (P/N 156751, below)
- 4 oz. positive developer concentrate (P/N 156734, below)
- 32 oz. etching solution (P/N 616438, pg 161)

Part No.	Description	1	5
2113244	Prototyping developer kit *	\$46.95	\$42.49

\*Shipped vioud – available continental U.S. only



## DATAK Pre-Sensitized Circuit Boards & Chemicals

- Pre-coated circuit board • 1/16" thick

Includes: Instructions

P/N 2097088 Includes:

ER-18 tinnit solution, 8" x 6" x 2" pan, 16 oz. bottle

\*Web Code: CTB

156751



Part No.	Mfr. Part No.	Description	1	10	50
2097117	14-024	Single sided (2.0"L x 4.0"W)	\$4.49	\$3.95	\$3.49
156751	14-034	Single sided (3.0"L x 4.0"W)	5.49	4.95	4.49
156742	14-234	Double-sided (3.0"L x 4.0"W)	5.95	5.49	4.95
156734	12-404*	4 oz. positive developer	14.95	13.49	11.95
2097070	12-500	Clear copy sheets (8.5" x 11.5") 5 pk.	5.49	4.95	4.49
2097088	12-800	Tin plating copper kit	19.95	17.95	15.95
70201	ER3*	Dry concentrated etchant (makes 1 pint)	5.95	5.49	4.95

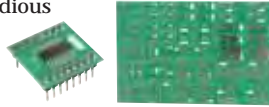
\*Shipped via UPS ground – available continental U.S. only



## BELLIN DYNAMIC SYSTEMS, INC. Surface Mount Proto Boards

Prototyping SMT circuit boards has been tedious and time-consuming. Now there is an easy, cost-effective and versatile Snap-Apart™ solution from Bellin Dynamic Systems.

- V-groove scoring between elements for smooth straight edges
- Compatible with .100" single or dual row male headers (see pg 68)
- Board thickness: 0.031" • Size: 7.6"L x 5.0"W
- Visit [www.Jameco.com](http://www.Jameco.com) for additional specifications



In use of 215503 215491

### Small SMT

Part No.	Mfr. P/N	Board Description	1	10
215491	B502	160 SMT pattern, SOT/SOIC/TSSOP/MSOP/DPAK & more	\$44.95	\$39.95
227344	B513	300 SMT pattern, SC90, SOT23-6, 323-6, TSOP, MSOP8, 10+	44.95	39.95

### SOIC

215520	B505	60 SOIC SMT pattern, SOIC 8, 14, 16, 24, 32, 40 & more	\$44.95	\$39.95
227310	B510	140 SMT pattern, SOIC 8 to DIP .300" width	44.95	39.95
227352	B514	72 SMT pattern, SOIC narrow 8, 14, 16, 18, 20 to DIP .300"	44.95	39.95
227361	B515	30 SMT pattern, SOIC 24, 28, 32 to DIP .600" width	29.95	27.95

### Fine Pitch Dual Row

215503	B503	34 SMT pattern, SOIC/QSOP/TSSOP/MSOP/TSSOP & more	\$44.95	\$39.95
227281	B507	40 SMT pattern, SSOP/TSSOP 16, 20, 32, 40 & more	44.95	39.95
323889	B516	54 SMT pattern, 0.65mm TSSOP 14/16/20/28 to DIP 0.300/0.600	44.95	39.95
323900	B517	18 SMT pattern, 0.4mm/0.5mm/0.65mm TSSOP 48	29.95	27.95
681141	B536	4 SMT pattern, 0.5mm TSSOP 14/16/20/28	24.95	21.95
2097934	B537	54 SMT pattern, 0.4mm TVSOP 14/16 & TSSOP/TVSOP 20/28	24.95	22.95

### Quad

323918	B518	2 SMT 0.65mm or 0.8mm pitch, universal QFT adapter for QFP32/40/48/56/64 (by 8-pin increments to 256 pins)	\$24.95	\$21.95
336479	B530	8 SMT, 0.65/0.80mm QFP/MLF 8 - 80 pins (even # of pins/side)	24.95	21.95
336487	B531	8 SMT, 0.65/0.80mm QFP/MLF 4 - 76 pins (odd # of pins/side)	24.95	21.95
336508	B533	8 SMT, 0.40/0.50mm QFP/MLF 4 - 76 pins (odd # of pins/side)	24.95	21.95
681150	B535	8 SMT, 0.40/0.50/0.65/0.80mm QFP/TQFP/QFN/MLF/MLP 4/8/12/16/24/28/32 pins	24.95	21.95

### PCB Connector (0.062" thick through-hole)

Part No.	Mfr. P/N	Description	Price
227272	B506	45 SMT pattern, USB A, B/1394/RJ11, 12, 45/DB9 PCB connector	\$24.95

### PitchStick™

681133	B534	2 SMT pattern, 48 inline pads, 19.69/25.59 mil pitches	\$27.95
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### Development Board

- Six slots for DC regulators • "Star Ground" points for non-isolated supplies
- Marked referencing: chassis, earth or circuit common

Part No.	Mfr. Part No.	1	10
2097942	B500	\$24.95	\$21.95

## microEngineering Labs Experimenter's Module Board

Provides an assembled test bed containing most of the circuitry commonly used with PIC microcontrollers. Many different projects may be created using the LAB-X1, including calculator, voltmeter, LCD backpack, tone dialer and RC servo controller.

- 40-pin ZIF socket for PIC MCU (P/N 104030, below) and PIC16F877-20/P (P/N 176882, below)
- Reset button • 16 switch keypad • 2 RC servo connectors
- LED bargraph • RS-232 interface • 3 potentiometers • Speaker
- 2 lines x 20 characters LCD module • Size: 5.5" x 5.6" • One-year warranty
- Socket for I2C & SPI serial EEPROM, RS-485 interface, Microwire serial EEPROM and real time clock/serial analog to digital converter (devices not included) • Prototyping area for additional circuit
- EPIC in-circuit programming connector

Requires: AC adapter (below)

Part No.	Description	1	5
169113	LAB-X1A experimenter board (assembled)	\$199.95	\$189.95
176882	PIC16F877-20/P microcontroller (pg 10)	5.65	5.45
127976	AC adapter (details on pg 114)	6.95	6.25
104030	40-pin ZIF socket (details on pg 75)	12.95	11.95

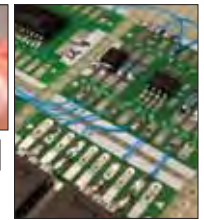


## ProtoFlex Flexible Prototyping System

ProtoFlex has devised a flexible, self-adhesive adapter system that makes it easier to integrate SOIC, TSSOP, SOT, D-Sub, and other small components into your prototyping design. The precut adapters can be applied to virtually any surface.



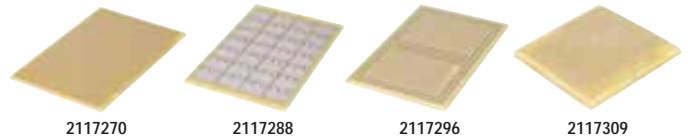
★ Web Code: FPS



- 3 mil thick design keeps components low profile
- Large pads allow for easy surface mounting of wires
- Unique, dual, asymmetric hole pattern for multiple connection points
- Multiple silk-screen blocks for reference and pin identification

Part No.	Description	1	5
2121201	SOIC, 5 ea. of 8, 14, 16 & 20-pin adapters	\$59.95	\$56.95
2121228	TSSOP/SSOP, 5 ea. of 8, 14, 16 & 20-pin adapters, .65mm pitch	59.95	56.95
2121236	Var. of common SOT, SC-70, DD-PAK, 1206 & other SMT layouts	59.95	56.95
2121236	IDC ribbon, 4 ea. of 10, 20 & 34-pin configurations, 2.54mm pitch	59.95	56.95
2121244	D-Sub interface, 4 ea. 9, 15 & 25-pin configurations, 2.74mm pitch	559.95	56.95
2121252	Kapton insulators, 3 mil, for electrical & thermal insulation, pre-cut	19.95	18.95
2121261	Protoboard alignment tool, board must have 1.06mm dia. holes	59.95	54.95
2121279	Tool accessory kit, 4 alignment pins, 4 screws, foam pad, case	24.95	22.95
2121287	4 replacement pins for alignment tool, .13mm pin dia., fits 1.06mm board holes	1.29	1.15

## BoardworX Surface Mount Proto Boards



BoardworX utilizes a new SMT prototyping system called the "Universal Grid" concept which allows fast and easy prototyping of almost all surface mount parts on a single board (except BGAs)

- 2117270: Surface mount only
- 2117309: Surface mount only (3-pack)
- 2117288: Surface mount and 28 power plane pads
- 2117296: Surface mount and thru-hole

★ Web Code: HDS

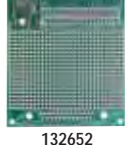
NEW  
MARKED IN PINK

Part No.	Description	Size	Grid Spacing (Top/Bottom)	1	10	100
2117270	SMT-100	3" x 2"	0.02"/0.025"	\$11.95	\$11.49	\$10.95
2117288	SMT-200	3" x 2"	0.02"/power pad	11.95	11.49	10.95
2117296	SMT-300	3" x 2"	0.02"/0.025"	11.95	11.49	10.95
2117309	SMT-400	1" x 0.95"	0.02"/0.025"	6.49	5.95	5.49

## microEngineering Labs "PICProto" Prototyping Boards

- Holds microcontroller, 5V regulator, oscillator, capacitors and DB9-25 connector
- Double-sided board with plated-through holes
- Large prototyping area
- Silkscreen legend
- Solder mask on both sides makes soldering easy

★ Web Code: DAT



Includes: Documentation sheet with schematic, suggested parts and placement

Part No.	Mfr. Part No.	Description	Size (L" x W")	1	5
<b>PICProto 18:</b> All 18-pin PICs including PIC16C52, 54, 56, 58, 554, 558, 61, 620, 621, 622, 71, 710, 711, 712, 715, 716, 84, 16CE623, 624, 625, 16F627, 628, 83 and 84					
132644	PP18	PICProto 18	3.0 x 1.5	\$9.95	\$8.95
<b>PPUSB:</b> For the 28-pin PIC16C745, 765; PIC18F2450, 2455, 2550 For the 40-pin PIC18F4450, 4455, 4550					
1942180	PPUSB	PICProto USB	3.6 x 4.1	\$19.95	\$17.95
<b>PICProto 3:</b> For the 28-pin PIC16C62, 63, 642, 66, 72, 76, 773, 16F73, 76, 870, 872, 873, 876, 18C242 and 252					
132636	PP3	PICProto 3	3.0 x 3.0	\$14.95	\$12.49
<b>PICProto 64:</b> For the 40-pin PIC16C64, 65, 662, 67, 74, 77, 774, 16F74, 77, 871, 874, 18C422 and 452					
132652	PP64	PICProto 64	4.0 x 3.0	\$16.95	\$12.95

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above





Mini Breadboards for Surface Mount Devices.

## Surfboards®

Part No.	Mfr. Part No.		1	10
207360	9081 (For 8-pin SOIC)	.....	\$1.49	\$1.19
207378	9082 (For 8-pin SOIC)	.....	3.95	3.49
207386	9161 (For 14/16-pin SOIC; 0.1" pin spacing; 0.65"H)	.....	1.95	1.75
207394	9163 (For 14/16-pin SOIC; 0.1" pin spacing; 0.65"H)	.....	5.95	4.95

## Application Specific Adapters

Part No.	Mfr. Part No.	Accepted Devices	Pins	1	10
207589	33205	SOT-23-5/SC59-5	5	\$1.75	\$1.59
207597	33206	SOT-23-6/SOT-23-L/SC-59-6/TSP-6	6	1.95	1.55



## Power & Development Modules

### Populated RS-232 SchmartModule

- Operates from a single 5V power source, ESD

### PIC® Microcontroller Development SchmartModule

This board supports 116 different SOIC PIC® Microcontrollers. Simply solder on your PIC using the EZ technology and you are ready to go. This one board supports most of the 8-bit PICs available in SOIC package.

Part No.	Mfr. Part No.	1	5
2117000	710-0001-01	\$14.95	\$13.49
2117077	710-0004-01	14.95	13.49

## microEngineering Labs PICBasic & Pro Compiler

- Compatible w/ most PICmicro MCU programmers including EPIC plus
- Use in DOS or Windows® (includes Windows® editor/DE software)
- I<sup>2</sup>C instructions to access external serial EEPROMs
- Direct and library routine access to any pin or register
- Automation page boundary handling past 2k
  - Bit, byte, word arrays
- MPLAB/MPASM/ICE compatibility
  - Built-in LCD support
- Supports PIC12C5xx, 12C67x, 12CE67x, 14C000, 16C5x, 16C55x, 6xx, 7xx, 84, 92x, 16CE62x, 16F62x, 7x, 8x, 87x, 17Cxxx and 18Cxxx microcontrollers

Part No.	Mfr. Part No.	Description	1	5
150543	PBP	PICBasic Pro compiler	\$225.95	\$195.95

## microEngineering Labs EPIC Plus PICmicro Programmer

The EPIC Plus Programmer quickly and easily programs the PIC12Cxxx, 12CExxx, 16C505, 16C55x, 6xx, 7xx, 84, 9xx, 16CE62x, 16F62X, 7x, 8x, 87x, 14C000, 17C7xx, 18Cxxx microcontrollers from Microchip. The BASIC programmer includes an 18-pin socket for programming 8, 14 and 18-pin PICmicro MCUs. Devices available separately on page 10.

- Simple installation with parallel port (printer) interface
- Command line operation for automated, non-interactive programming

Requires: Two 9V batteries or AC adapter (below)

Part No.	Description	1	5
132679	EPIC Plus PICmicro programmer	\$54.95	\$49.95
136397	8/18/20-pin ZIF adapter	29.95	26.95
132610	40/28-pin ZIF adapter	29.95	26.95
162317	AC wall adapter (16VDC/500mA, details on pg 115)	9.95	8.95
67257	6' DB25 cable (details on pg 175)	7.95	6.95

## UVP EPROM Eraser

- Erases 1 chip in 15 min. or 8 chips in 21 min.
- Conductive foam liner eliminates static build-up
- Maintains constant exposure distance of 1"
- Built-in safety lock to prevent UV exposure
- Complete with holding tray for 8 chips
- UV intensity: 6.8mW/cm<sup>2</sup>

Part No.	Description	Size (L" x W" x H")	Weight	1	5
15712	8-chip eraser	9.0 x 3.7 x 2.6	2.3 lbs.	\$185.95	\$169.95
34382	Lamp for 15712	—	0.6 oz.	39.95	34.95

## PLCC Prototype Adapters

- PLCC socket slotted for PLCC chip remover
- Tin-plated PLCC connector
- Gold-plated round pins
- PLCC socket identifies pin 1 and orientation key
- Silkscreen numbers identify pin numbers in groups of 5 and 10

Part No.	Pins	Size (L x W)	1	5	25
73542	44	2.3" x 1.6"	\$13.95	\$12.49	\$11.95
73551	68	3.4" x 1.6"	13.95	12.95	11.95
73569	84	4.3" x 1.9"	15.95	14.95	13.95

## SHAPELOCK Re-Usable Prototyping Compound

### "Shape-then-lock" Design Plastic

Build your invention now – without machine tools. Create super-strong custom parts, prototypes, molds, servo brackets, robot housings, sculptures, science projects, and more.

- Melts at 160°F
- Safely hand moldable
- Becomes rigid at room temperature
- Non-toxic, light weight and paintable

Part No.	Mfr. Part No.	Description	1	5
2112495	01-250	250 gram bag	\$14.95	\$13.49
2112508	01-500	500 gram bag	24.95	22.95

## microEngineering Labs USB PIC Programmer

More than 300 PIC microcontrollers are supported and support for future devices can be added via FLASH firmware updates. Intelligent voltage regulation allows programming of the new, low voltage PIC® MCUs as well as standard 5V devices.

- Dual color indicator shows ready/busy states
- Full featured, command-line operation
- Fast full speed USB data transfer
- Standard USB cable (Type A male to Type B male)
- HID interface
- Automatic Vdd and Vpp adjustment for different PIC MCUs
- In-Circuit Serial Programming (ICSP) connector for interface to project board
- Compatible with microchip HEX format files & all programming adapters

Part No.	Mfr. Part No.	Description	1	5
1942382	U2	USB PIC programmer	\$89.95	\$84.95
1942606	840Z	ZIF adapter (8-40 pins)	39.95	37.95

\*MicroEngineering Labs Programmers Available Online — Enter Web Code: EAT

## MICROCHIP PICKIT™ 2 Microcontroller Starter Kit

The PICKIT™ 2 microcontroller programmer is a low cost development programmer. It is capable of programming most of Microchip's Flash microcontrollers. New device support can be added by updating the operating system. The latest firmware is available on Microchip's website. This kit includes PICKIT™ 2 microcontroller programmer, USB cable and CD ROM.

Part No.	Mfr. Part No.	Description	1	5
697338	DV164120	Programmer starter kit	\$74.95	\$69.95

## Flash Writer/Programmer with USB Interface

- Supports Flash EPROMs, EEPROMs & EPROMs
- Type, read, load, edit, checksum, erase, blank check, program, verify, protect functions
- Programs 8-bit Flash serial ICs via USB cable on Windows® 9x/2000/XP
- High speed: only 22 seconds to blank check, program and verify MXIC MX29F040
- File formats supported: binary & machine code, Intel HEX, Motorola HEX, Tektronix

Includes: USB cable, 12V @ 500mA adapter, CD-ROM software and manual

Part No.	Description	1	5
225947	Leaper 3D	\$199.95	\$179.95

\*Universal Programmers Online — Enter Web Code SUP



## IC Programming Solutions

★ Web Code: SUP



EE Tools' main goal is to develop and manufacture the most sophisticated, reliable, and fast stand-alone and PC based device programmers which will surpass those introduced by the manufacturers from the Far East. All products are CE approved, and design.

• All products made in the USA • Free software updates for life • CE approved



### EeRom-8U USB Port 8-bit ROM Emulator

- 8-bit ROM Emulator
- Input voltage: 5V, 3.3V w/o adapter
- Supports: EPROM, Flash, SRAM

Part No.	Description	Price
2110203	Emulator .....	\$294.95
2110220	28-pin PLCC adapter .....	84.95
2110211	32-pin PLCC adapter .....	84.95



### ChipMax Low Cost Universal Programmer

- Parallel port interface
- Input voltage: 5V • 40-pin ZIF socket
- No. of devices supported: 8,000+
- Supports: Flash EPROM, EPROM, EEPROM, Microcontroller, PALCE, GAL

Part No.	Mfr. Part No.	Price
207731	CHIPMAX	\$294.95



### ChipMax2 Low Cost Fast Universal Programmer

- USB interface
- 48-pin ZIF socket
- Input voltage: 5V, 3.3V, 2.7V, 1.8V
- No. of devices supported: 15,000+
- Supports: NAND Flash Memory, Standard Flash Memory, EPROM, EEPROM, Serial PROM, GAL, FPGA, MCU

Part No.	Mfr. Part No.	Price
694866	CHIPMAX2	\$544.95



### TopMaxII High Speed Universal Programmer

- USB 2.0 PC interface
- 48-pin ZIF socket
- Input voltage: 5V, 3.3V, 1.8V
- No. of devices supported: 20,000+
- Supports: NAND Flash Memory, Standard Flash Memory, EPROM, EEPROM, Serial PROM, PAL, GAL, FPGA, MCU

Part No.	Mfr. Part No.	Price
2110158	TOPMAXII	\$794.95

### Adapters for Universal Programmers

Part No.	Mfr. Part No.	Price
2110166	32-pin PLCC adapter .....	\$79.95
694840	44-pin PLCC adapter .....	114.95
2110191	20-pin SOIC adapter .....	79.95

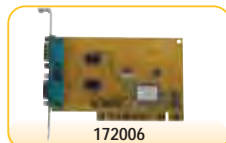
Part No.	Mfr. Part No.	Price
2110182	16-pin TSOP adapter .....	\$79.95
2110174	48-pin TSOP adapter .....	134.95

See pages 8-10 for Programmable ICs.

## Interface Cards & Switchboxes

### Interface, Graphic & External Sound Cards

★ Web Code: VBB



172006



344903



2123080



364111



291901



2124939

Part No.	Manufacturer	Product No.	Bus Type	Ports	Connectors	Description	1	10
172006	Various	99467	PCI	2	DB9	Serial Interface Card, 32-byte FIFO, 921kb/sec transfer rate, supports IRQ sharing, dual 16C650 DB9 male	\$34.95	\$30.95
171661	ValuePro	99469	PCI	8	DB25	Serial Interface Card, 32-byte FIFO, standard RS-232 interface, 921kb/sec transfer rate, supports IRQ sharing 16C650	89.95	84.95
344903	SYBA	SD-PCI-1S	PCI	2	DB9	Serial Interface Card, 32-bit PCI bus, dual DB-9 male, Nm9835CV chipset	27.95	24.95
2123080	ValuePro	U10-00075	PCI	1	DB25	Parallel Interface Card, 16-byte FIFO, 2.7Mbps transfer rate, IEEE 1284-1994, supports ECP/EPP/SPP/BPP, Windows/Linux	39.95	34.95
364111	ATI	109-54100-00	PCI	2	HDDB15	Video Graphics Card, 8MB graphics accelerator, Rage LT PRO AGP chipset, 7-pin TV-out and DFB connectors, Windows® 98 and NT 4.0 compatible	24.95	22.45
149294	ValuePro	CI-2020	ISA	—	50-pin F	SCSI Card, DOS, Windows® NT/95, OS2 Network, SCO UNIX compatible, internal and external SCSI-II connectors, fast SCSI II	24.95	22.95
291901	—	MCT-IDEFH-2	ISA	—	Multiple	I/O Controller Card, 16-bit interface, supports 2 IDE hard drives up to 528MB and 2 floppy drives from 360kb to 1.44Mb, jumper selectable for enabling and disabling ports	4.95	4.49
2124939	ValuePro	AA1570	USB	—	Multiple	External Sound Card, 7.1 ch. sound box, line/mic-in, record & playback, external audio control, S/PDIF-in/out	45.95	41.49

KVM & Computer Cables on page 175

## Computer Switchboxes

★ Web Code: CAK

### KVM Switchbox

Part No.	Mfr.	Product No.	Description	Connectors	Size (L" x W" x H")	Wt. (lbs.)	1	5
310834	Various	KS-104	4-way KVM switchbox (4 PCs to 1 user)	PS/2 female for keyboard and mouse; HDDB15 for monitor, recom. P/N 202180 pg 114 for power supply	7.4 x 1.3 x 2.9	7.1	\$24.95	\$19.95

### Miscellaneous Computer Switchboxes

Part No.	Mfr.	Product No.	Description	Connectors	Size (L" x W" x H")	Wt. (lbs.)	1	5
79126	ValuePro	40D1-10602	2-serial port switchbox	DB9 female (2-ports to 1PC)	6.0 x 4.8 x 2.5	1.2	\$9.95	\$8.95
20095	ValuePro	40D3-17602	2-port switchbox	DB25 female (2PCs to 1 printer)	6.0 x 5.8 x 2.3	1.4	10.95	9.95
310818	Various	USB-2PORT	2-way USB switchbox	1 USB-B female; 2 USB-A female	5.1 x 3.7 x 1.8	2.5	7.95	6.95



\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# PC & Laptop Power Supplies

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE

## 60 to 800-Watt PC Power Supplies

**NEW**  
MARKED IN PINK

↑↑ 80 Plus  
Energy Efficient

**80 PLUS**



### AT Power Supplies

★ Web Code: HCA

Part No.	Mfr.	Mfr. Part No.	Power (W)	Output (VDC/Amps)	Input (VAC @ Hz)	Input Connector (Mating Connector/Cord)	Certification	Size (L" x W" x H")	Wt. (lbs)	Pricing		
										1	5	25
2081764	Magic	MPI-925A *	200	+5/20, +12/7.5, -12/1, -5/1	85-265 @ 50-60 switching	3-prong AC receptacle (P/N 38050, pg 124)	UL/CUL/TUV/CE	6.0 x 5.6 x 3.4	3.3	\$39.95	\$35.95	\$31.95
249754	Sparkle	SPI-300G	300	+5/30, -5/0.5A, +12V/12A, -12V/0.5A	100-240 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 124)	UL/CSA/TUV FCC	5.5 x 5.9 x 3.4	3.5	64.95	58.95	52.95
2081861	Pacific Power	KPP400-29	400	+5/42, +12/14, -5/1, -12/1	100-240 @ 50-60 switching	3-prong AC receptacle (P/N 38050, pg 124)	CUL/TUV/CE	5.5 x 6.0 x 3.5	4.6	64.95	57.95	49.95

### ATX Power Supplies

Part No.	Mfr.	Mfr. Part No.	Power (W)	Output (VDC/A)	Input (VAC @ Hz)	Input Connector (Mating Connector/Cord)	Certification	Size (L" x W" x H")	Wt. (lbs)	Pricing		
										1	5	25
1955941	Magic Power Tech	MPI-806H *	60	+3.3/6, +5/8, +12/3, +5VSB/0.75, -12/0.5	90-264 @ 47-63 switching	Connector, CN1-CN3	UL/CB/TUV	5.0 x 3.1 x 1.5	1.0	\$89.95	\$84.95	\$79.95
2081887	Enhance	ENP-0185T	150	+3.3/7, +5/12, +12/5, +5VSB/0.8, -5/0.2, -12/0.3	200-240 @ 50	3-prong AC receptacle (P/N 38050, pg 124)	CUL/TUV/CE	7.5 x 3.25 x 1.7	2.5	24.95	22.49	19.95
2081879	Pacific Power	KPT230C-4A	230	+3.3/15, +5/25, +12/9, +5VSB/1A, -5/1, -12/1	100-240 @ 50-60 switching	3-prong AC receptacle (P/N 38050, pg 124)	CUL/TUV/CE	8.0 x 4.0 x 1.6	3.0	19.95	18.49	16.95
319994	3Y Power Technology	AP-1250-1112 *	250	+3.3/20, +5/25, +12/12 +5VSB/3, -5/0.5, -12/0.5	100-240 @ 50-60 switching	3-prong AC receptacle (P/N 38050, pg 124)	UL/CUL/TUV/CE	7.5 x 4.0 x 1.6 (1U)	2.9	19.95	17.95	15.95
2110422	Sparkle	SPI2501UH-B204 *	250	+3.3/16 +5/18, +12v1/16, +12v2/16 -12/0.8, -5/0.3, +5VSB/2.5	90-264 @ 47-63 switching	3-prong AC receptacle (P/N 38050, pg 124)	UL/CSA/TUV/CE/CB ↑↑	7.5 x 3.9 x 1.6 (1U)	2.9	69.95	62.95	59.95
427928	Seasonic	SS-300SFD Active PFC ↑	300	+3.3/20, +5/20, +12/8, +12/14.5, -12/0.8, +5VSB/2	90-264 @ 47-63 switching	3-prong AC receptacle (P/N 38050, pg 124)	UL/CUL/TUV/CE	5.1 x 4.9 x 2.5	2.7	54.95	53.55	49.95
2110238	Sparkle	ATX-300PA-B204 *	300	+3.3/20, +5/20, +12v1/16, +12v2/16 -12/0.3, +5VSB/2.5	115 @ 57-63, 230 @ 47-53	3-prong AC receptacle (P/N 38050, pg 124)	UL/CSA/TUV/CB	5.5 x 5.9 x 3.4	3.3	39.95	36.95	32.95
2110254	Sparkle	ATX-400PA-B204 *	400	+3.3/20, +5/14, +12v1/18, +12v2/18 -12/0.3, +5VSB/2.5	115 @ 57-63, 230 @ 47-53	3-prong AC receptacle (P/N 38050, pg 124)	UL/CSA/TUV/CB	5.5 x 5.9 x 3.4	3.8	49.95	44.95	42.95
308814	Powmax	LP6100D *	400	+3.3/28, +5/30, +12/25, -5/0.3, -12/0.8, +5VSB/2	115/230 @ 60 switchable	3-prong AC receptacle w/ 6' power cord	UL/CUL/TUV/CE	5.9 x 5.6 x 3.4	3.5	49.95	44.95	39.95
2110449	Sparkle	SPI4601UG-B204 *	460	+3.3/20, +5/20, +12v1/16, +12v2/16 +12/16, -12/0.5, +5VSB/2.5	90-264 @ 47-63 switching	3-prong AC receptacle (P/N 38050, pg 124)	UL/CSA/CUL/TUV/CE/CB ↑↑	8.7 x 3.9 x 1.6 (1U)	3.7	109.95	104.95	99.95
2126037	Coonix	PSCO-500	500	+12V1/14, +12V2/14, +5/20 +3.3/16, -12/0.39, +5VSB/2A	100-240 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 124)	CE/CB/TUV	5.5 x 5.9 x 3.4	3.6	49.95	44.95	39.95
422094	Seasonic	SS-500HT Active PFC ↑	500	+3.3/30, +5/30, +12/17, +12/16, -12/0.8, +5VSB/2	90-264 @ 47-63 switching	3-prong AC receptacle (P/N 38050, pg 124)	UL/CUL/TUV/CE	5.9 x 5.5 x 3.4	5.0	89.95	84.95	79.95
2126029	Coonix	PSCO-400	400	+3.3/15, +5/15, +12V1/11, +12V2/11 -12/0.3, +5VSB/2	100-240 @ 50-60 switching	3-prong AC receptacle (P/N 38050, pg 124)	UL/CSA/TUV/CE	5.5 x 5.9 x 3.4	3.6	39.95	35.95	32.49
2126045	Coonix	PSCO-600 *	600	+3.3/15, +5/16, +12V1/19 +12V2/19, -12/0.3, +5VSB/2.0	100-240 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 124)	UL/CSA/CE/CB	5.5 x 5.9 x 3.4	3.6	69.95	64.95	59.95
2126088	Apower	AK800 *	800	+3.3/25, +5/28, +12/18, +12/28, -12/0.5, +5VSB/3	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 124)	FCC/CE	10.75 x 6.75 x 4	4.3	79.95	71.95	64.95

\* See photo above ↑ Comes with SATA ready connector ↑↑ 80 Plus energy efficient

### Power Cable

Part No.	Description	Length	AWG	Pricing		
				1	5	25
1955950	20-pin ATX, 4-pin Molex type (for P/N 1955941) *	11.5"	18	\$14.95	\$14.49	\$13.95

For other Power Cables and Adapters, see pages 175-176



## Laptop Regulated Table-Top Power Supplies (2-Wire AC Input)

★ Web Code: LRT

◆ Polarity 2 (center positive) Female (F)



Part No.	Manufacturer	Mfr. Part No.	Volts (VDC)/ Current (A)	ID x OD mm Female/Male; Polarity ◆	Input VAC@Hz	Power (W)	LED Ind.	Size (L" x W" x H")	Cords (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
												1	10	50	100
2099411	Sparkle Power	FSP090-DMCBI	+19/4.74	7 ea. right angle plugs F 2	100-240@50-60	90	No	5.3 x 2.3 x 1.3	6' 5'	0.7	UL/CUL/TUV/CEC	\$59.95	\$53.95	\$47.95	\$42.95
2099761	Hi-Capacity	AC-C10K	+19/8.0	2.5mm x 5.5mm F 2	100-240@50-60	120	Yes	6.6 x 2.4 x 1.5	4' 6'	1.0	UL/CUL/TUV/CE	49.95	44.95	39.95	35.95

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.



## Mice & Mouse Pads

★ Web Code: MCM



685943



305082



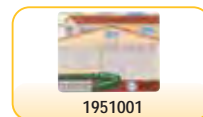
2006650



265447



121363



1951001

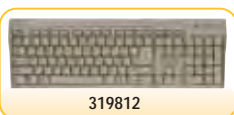
Part No.	Manufacturer	Mfr. Part No.	Type	Interface	Description	Size (L" x W" x H")	1	10	25
685943	Dell	OW7751	Mech. Ball	USB	3-button with scroll, black	4.8 x 2.5 x 1.5	\$6.95	\$6.25	\$4.95
305082	IOne	Libra-90	Trackball	PS/2	PS/2 trackball with USB adapter, black	5.6 x 4.7 x 1.9	24.95	22.95	19.95
2006650	IOne	MSM9UP-BLK	Optical	USB-PS/2	3-button with scroll, black	4.5 x 2.3 x 1.5	8.95	7.95	6.95
265447	Memorex	32022378	Optical	PS/2	Wireless, 5 button optical scrollpro w/ PS/2 to USB adapter	4.9 x 3.0 x 1.6	16.95	15.95	14.95
121363	—	KP-01	Mouse pad	—	Mini mouse pad, blue	7.0 x 5.5 x 1.0	.69	.59	.49
1951001	—	MP-ATT	Mouse pad	—	Mouse pad (2" x 3.5"; 2.75" x 5" window slots for photos)	9.5 x 7.5 x 1.2	.49	.45	.39

## Keyboards & Keypads

★ Web Code: LBU



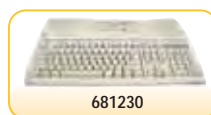
455603



319812



639550



681230



454483



1537109



265375

Part No.	Mfr.	Mfr. Part No.	Interface	Description	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
455603	Powmax	KM-2501	PS/2	104-key soft touch w/ multimedia & 12 function keys.	17.5 x 6.0 x 1.2	1.8	\$7.95	\$6.95	\$5.95
319812	PC Concepts	iCIA	PS/2	107-key soft touch keyboard w/ programmable function keys, software included	17.5 x 5.7 x 0.8	1.8	7.95	6.95	6.25
639550	IOne	Scorpius-2KB	PS/2	103-key soft touch keyboard, Windows® 98SE/2000/ME/XP compatible (black)	15.9 x 6.5 x 1.3	2.1	39.95	35.95	31.95
681230	NMB	RT915CTW	PS/2	104-key tactile keyboard w/ 12 function keys w/ built-in speakers	18.5 x 10 x 3.2	2.5	11.95	9.95	8.95
454483	Powmax	HB5103	PS/2	Black 3-in-1 internet kit 104-key keyboard, optical mouse & speaker set	17.1 x 6.1 x 1.0	2.24	13.95	12.49	10.95
1537109	Arctic	25551	USB	18-key tactile keypad	4.3 x 3.0 x 0.5	0.2	11.95	10.95	9.95
265375	IOne	Scorpius-22RB	Serial	22-key tactile keypad w/ 2-key rollover and auto repeat function	6.2 x 4.2 x 1.3	0.8	39.95	35.95	31.95

## CPU Heat Sinks with Fan

★ Web Code: MBG

Part No.	Description	Size (H" x W" x D")	1	10
319185	Heat sink w/ fan, socket 7 PIII	1.40 x 2.62 x 2.30	\$3.75	\$3.49
1945313	Heat sink w/ fan, Pentium® 75-133MHz	2.07 x 2.05 x 1.43	4.95	4.49
206244	Heat sink w/ dual fan, SECC II Pentium®	1.24 x 1.96 x 5.25	7.95	6.95
661087	Heat sink w/ fan, socket 370 PIII	2.36 x 2.19 x 1.54	5.95	5.49
2125878	Fan, socket 370 PIII	3.15 x 2.55 x 1.00	6.95	5.95
2125886	Fan, socket 370 PIII	3.15 x 2.55 x 1.00	6.95	5.95
645482	Heat sink w/ fan, socket 370 PIII	1.30 x 2.05 x 1.97	11.95	10.95

## Legacy 3.5" Hard Disk Drives

★ Web Code: SAW

Part No.	Capacity	Description	Warranty	1	10
151036	3.2GB★	EIDE/Ultra DMA33	1 year	\$34.95	\$31.95
151044	4.3GB★	EIDE/Ultra DMA33	1 year	49.95	44.95
146333	2.5GB★	EIDE/FAST ATA-2	1 year	29.95	26.95
124978	1.27GB★	IDE	1 year	29.95	26.95

★ Pull = Extra Savings

## Disk Drive Mounting Rails

- AT and compatibles
- 8 mounting holes
- Includes all necessary mounting hardware

Part No.	Description	Wt. (lbs.)	1	10
34323	Mounting rails (2)	0.04	\$1.95	\$1.49

## 3.5" Hard Drive Bracket Short

- Allows drive to be mounted in a 5.25" bay

Part No.	Product No.	Color	1	10
1950745	G/S435	Silver	\$4.95	\$4.49

★ Computer Brackets — Enter Web Code PCS

## Monitor/Mouse/Keyboard Cable

HDDDB15 male/female for monitor, 5-pin DIN male/female for keyboard and DB9 male/female for mouse.

Part No.	Product No.	Length	1	5
141284	G/S(KVM062)	6'	\$10.95	\$9.95

## Replacement Switches for AT-Style Computer Cases

### PC Pushbutton Switch

- Contacts rated at 250VAC
- Current: 8A
- Alternate action double pole switch
- UL/CSA/VDE approved
- Size: 0.9"L x 0.7"W x 0.9"D

Part No.	Product No.	1	10	100
174238	PSD-1-2S8	\$1.25	\$0.99	\$0.89

### PC Rocker Switch

- For mini-tower cases
- Current: 10A
- Contacts rated at 250VAC
- DPST
- UL/CSA approved
- Size: 0.9"L x 1.2"W x 1.4"D

Part No.	Product No.	1	10	100
127028	GRK-618A	\$1.25	\$0.99	\$0.89

## Business Card CD-R Kit

Differentiate yourself or your business from others. This kit includes 12 50MB capacity CD-R and sleeves, 16 labels and label design software. A great way to promote your business in trade shows and exhibits. Easy to carry and cost-effective.

Part No.	Description	1	10
249308	Do-It-Yourself Business Card CD-R kit	\$2.49	\$2.25

**We Ship the Same Day!**

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Surge Protectors & PC Accessories

4 LEVELS OF SAVINGS			
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN	DOLLAR SALE



## 2, 4, 6, 7, 8 & 12-Outlet Surge Protectors

### Isobar Premium Surge Protectors

- Up to \$50,000 Ultimate Lifetime Insurance covers Isobar and connected equipment against surge damage for life!
- Diagnostic indicators on Ultra versions alert you to improper outlet wiring, loss of AC power, and damage to protection circuitry
- 4 & 6-outlet protectors: 6' cord; 8 & 12-outlet protectors: 12' cord
- UL 1449 and 1283 listed • Lifetime warranty
- 2114669: 2-line telephone/DSL protection
- 139686: Fits 19" rack mount
- Size: 18981: 5.8"L x 3.5"W x 2.5"H; 2114651: 7.0"L x 3.5"W x 2.5"H; 2114669: 7.0"L x 3.5"W x 2.5"H; 19001: 9.0"L x 3.5"W x 2.5"H; 139686: 17.5"L x 4.0"W x 1.8"H



19001



139686

isobar®



Part No.	Mfr.	Part No.	Joules	Description	Wt. (lbs.)	1	5
18981	ISOBAR4	2200	4 outlet, 2 isolated filters (6')	2.4	.....	\$49.95	\$44.95
2114651	ISOBAR6U	2350	6 outlet, 3 isolated filters	2.9	.....	69.95	64.95
2114669	ISOTEL6U	2850	6 outlet, 3 isolated filters	3.3	.....	74.95	69.95
19001	ISOBAR8U	2350	8 outlet, 4 isolated filters (12')	3.5	.....	74.95	66.95
139686	IBAR12RM	750	12 outlet, 2 isolated filters (15')	4.7	.....	129.95	122.95

### Super 7 Standard Surge Protectors – 7 Outlet

- \$75,000 Ultimate Lifetime Insurance
- Up to 42,000 amp spikes
- Effective spike and noise suppression w/ diagnostic LEDs
- 2114677: 1-line telephone/DSL protection



124337

Part No.	Mfr.	Part No.	Joules	Size (L" x W" x H")	Wt. (lbs.)	1	5
124337	Super7	2350	10.5 x 2.5 x 1.5	1.6	.....	\$19.95	\$17.95
2114677	Super7tel	2470	10.25 x 2.75 x 1.5	2.2	.....	31.95	28.95

### 12-Outlet Power Strip

- No surge suppression
- Lighted/protected switch
- 15' cord • Size: 36"L x 1.5"W x 1.5"D



Part No.	Mfr.	Part No.	Electrical Rating	Outlet Spacing	Wt. (lbs.)	1	10
2114642	PS3612	1800W (15A)	2.638"	3.8	.....	\$49.95	\$47.95

### 2-Outlet Travel Surge Protectors

- 2114618: \$50,000 Ultimate Lifetime Insurance
- Retractable plug • Modem/fax protection
- 2114626/2114634: \$100,000 Ultimate Lifetime Insurance
- In-line connection for notebooks
- Modem/fax protection with splitter (1-line in/2-lines out)



Part No.	Mfr.	Part No.	Joules	Description	Size (L"xW"xH")	Wt. (lbs.)	1	5
2114618	Traveler	1050	2 outlet w/ phone	1.75 x 2.5 x 3.5	0.3	.....	\$16.95	\$14.95
2114626	TravelerC6	1130	3-prong, in-line	1.0 x 4.25 x 1.75	0.2	.....	24.95	21.95
2114634	TravelerC8	1130	2-prong, in-line	1.0 x 4.25 x 1.75	0.2	.....	22.95	19.95

### HDD Removable Enclosure

#### SATA Hot Swappable

- For 5.25" drive bays
- For 3.5" SATA & SATA II hard disks



Part No.	Description	Size (W" x D" x H")	1	5
2120444	SATA	5.9 x 7.8 x 1.7	.....	\$19.95 \$17.95

### SATA External Enclosure

- For SATA 3.5" and 2.5" drives
- Internal fan for cooling drive
- SATA-II compatible



Includes: 20" external SATA cable, 42W dual output table-top power supply w/ a 4-pin DIN connector, power cable and hardware

★ Web Code: HDD

Part No.	Description	Size (L x W x H)	1	5
2125211	SATA	7.9" x 5.1" x 1.9	.....	\$39.95 \$34.95

### Hands-Free Condenser Microphone

- Cord length: 8'
- Connector: 3.5mm male stereo plug
- Size: 1.9"L x 1.2"W x 0.3"H
- One-year warranty



Part No.	Product No.	1	5	25
135248	MP-9108-R	.....	\$4.95 \$4.49	\$3.95

### Clip-On Lapel Microphone

- For Motorola cell phones and other applications
- 2.5mm male stereo plug
- Includes ear bud



Part No.	Cord Length	1	5	25
2078207	3'	.....	\$1.95 \$1.79	\$1.59

## 6-Outlet Surge Protectors

- 20175: 6-outlet; 4' cord
- Metal power strip • Size: 12.3"L x 2.4"W x 1.3"H
- 216485: 6-outlet; 4' cord
- Heavy-duty power cord (14AWG x 3)
- Size: 9.5"L x 1.7"W x 1.4"H
- Clamping voltage: 400V
- Max. surge voltage: 6500V
- RESET/OFF switch with built-in 15A circuit breaker
- 2075647: 6-outlet; 6' cord
- Rating: 15A/125VAC/1875W
- Clamping voltage: 330V
- Size: 13"L x 2.1"W x 2.3"H
- Expands from 13" to 18" to fit bulky adapters; each segment expands separately



20175



216485



2075647

Part No.	Mfr.	Product No.	Spike Current (Max.)	Wt. (lbs.)	1	10	25
20175	ValuePro	51W1-13206	4500A, 50 joules	1.5	.....	\$11.95 \$10.95	\$9.95
216485	ValuePro	51W1-10206	4500A, 150 joules	0.9	.....	12.95 11.49	9.95
2075647	Ideative	SS1650W-06	144,000A, 2160 joules	1.6	.....	24.95 22.95	20.95

## 6-Outlet Power Tap Adapter w/ Surge Protection

- Right angle jacks
- 180 joules
- Grounded outlets
- Surge protection across line and neutral, line and ground
- Surge protection circuit good LED indicator
- 15A; 125VAC; 1875W • TVSS: 330V



Part No.	Mfr.	Part No.	Description	1	5	25
2082214	YE-08A		6-outlet wall surge protector	.....	\$5.95 \$5.49	\$4.95

★ Surge Protectors Online — Enter Web Code CAC

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## Go-Rock Mobile Speakers

- Connect iPod or any music player with standard 3.5mm audio plug
- Built-in retractable charging cable and 3.5mm audio cable
- Ultra portable, convenient for on-the-go listening
- Size: 3.8"H x 2.0"Dia. • 6 hours per charge
- Includes: Speakers, USB charging port & user manual



Part No.	Mfr.	Part No.	Size (H x Dia.)	1	5
2128403	U10-00216		3.8" x 2.0"	.....	\$29.95 \$26.95

## 10-Component 411-Piece Screw Kit

The perfect kit containing an assortment of the most common PC screws, washers, and caps used for building, repairing, and maintaining computer systems.

- 20 rubber washers • 20 rubber rivet washers
- 50 #6.5 x 4 to M3 metal jackscrews
- 50 #6-32x 4mm Philips screws
- 50 case fan mounting screws F5 x 12 TP3
- 50 3 x 6 CD Rom screws
- 20 #6 x 8 tool-less screws
- 50 #6-32x 6" Philips screws
- 100 2.54mm jumper caps
- 1 precision Philips screwdriver



Part No.	Description	1	5
2120891	411-piece screw kit	.....	\$29.95 \$26.95

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.





## RS-232 to RS-485/422 Bidirectional Converters

- Cable length: 4000' max.
  - Data rate: 1MB/second
  - Controlled by RTS signal
  - 4-wire full duplex or 2-wire half duplex
  - DCE and DTE selectable
  - Point-to-point and multidrop operations
  - RS-485: terminal block and RJ11 connections
  - RS-232: DB25 female connector • Input: 110VAC
  - Weight: 0.9 lbs. • One-year warranty
- 197931:** Port powered (power adapter not included)  
• Data rate: 100kbps
- 122956:** Features RS-485SI; optical isolation: 2000V



Part No.	Mfr. Part No.	1	5
117701	RS-232-485/422	\$49.95	\$44.95
197931	RS-232-485/422	59.95	53.95
122956	RS-232-485/422 OPT ISO	89.95	80.95



## RS-232 to RS-485/422 Bidirectional Converter

- Automatic internal RS-485 bus supervision
- No internal flow control for RS-485 required
- Point-to-point, multi drop, and simplex/duplex link selectable
- Supports transfer speeds of up to 115.2 Kbps
- Supports up to 32 receivers to be set in multi drop installations
- Extends up to 4000 feet through networking cables
- Maximum 2000V Isolation Protection



Part No.	Mfr. Part No.	1	5
2115733	IC485AI	\$99.95	\$89.95



## Bidirectional Non-Buffered Serial-to-Parallel Converter

- Bidirectional conversion of parallel and serial signals
- Serial interface: hardware handshake RTS/CTS, software handshake Xon/Xoff; DCE/DTE selectable; parity: odd, even, or no parity; data bits: 7, 8
- Connectors: one DB25 female and one Centronics 36-pin male • One-year warranty
- Stop bits: 1 or 2 • Baud rate: 300 to 38,400bps
- Weight: 0.8 lbs. • Size: 4.0"L x 2.5"W x 1.0"H



**Includes:** AC adapter (9VAC @ 200mA) and manual

Part No.	Mfr. Part No.	1	5
116935	SXP320	\$44.95	\$39.95

**\* Bidirectional Converters Online — Enter Web Code KEM**

## AverKey Pro PC-to-TV Converter Box

- Converts VGA video or Macintosh® 640 x 480 to standard NTSC
- Built-in flicker filter
- Resolution: 800 x 600
- TV brightness control
- Compatible w/ Microsoft® Windows® 3.0 and higher
- Weight: 2.2 lbs. • Two-year warranty



**System Requirements:** VGA-based PC, DOS 3.0 or higher, 640kb RAM or larger

**Includes:** PC-to-TV converter, adapter, cables & manual

Part No.	Description	1	5
167193	Video signal pro	\$64.95	\$59.95

## Serial ATA to IDE Converter

This serial ATA to IDE converter allows standard parallel ATA hard disk drives, CD-ROM, CD-RW, DVD-ROM, DVD + RW, to be used with serial ATA PCI cards or motherboards with serial ATA ports and meet the specification of serial ATA 1.0 interface.



- Compliance with Serial ATA Gen. 1.0
- Master/slave device emulation support
- Supports PIO mode 0 ~ 4, Ultra DMA mode 0 ~ 7, UDMA transfer rates of up to 150Mbps, ATAPI command set and 48-bit LBA addressing

**System Requirements:** PC with available Ultra ATA hard disk (IDE) and available Serial ATA host port

Part No.	Mfr. Part No.	1	5
1944661	AD3300	\$17.95	\$16.95

## Compact Multi-Card Reader

This compact multi-card reader is designed for the mobile user for ease of travel and use. Access all types of memory cards without using adapters. Transfer files between your computer and digital devices. Plug and play compatible.



- High speed USB 2.1 (backwards compatible with USB 1.1)
- High transfer rates of up to 480Mbps
- LED power status and indicators
- Supports memory card formats including Compact Flash, Microdrive Extreme III, SmartMedia card, T-Flash, Micro SD, Secure Digital Cards, SD High Capacity, Mini SD card, Multimedia Card (MMC), Multimedia Card II, RS-MMC, memory sticks, Memory Stick PRO DUO, Memory Stick PRO DUO Extreme II, Memory Stick ROM, Memory Stick Select
- Size: 3.4"L x 2.1"W x 0.6"H
- Weight: 0.3 lbs.

**Includes:** Multi card reader and USB cable

Part No.	Mfr. Part No.	1	5
2124525	U10-00062	\$19.95	\$17.95

## USB 2.0 4-Port Hub with Clock and Mood Light

Enjoy high speed connectivity through each of the 4 USB ports. Plug in with a built-in USB and see the color changing mood lights emitted from the hub. There is also a 12-hour clock display for convenient time keeping.



- 4-port USB 2.0 (supports USB1.1)
- Color changing mood light (purple, blue, green, red) • 12 hour clock display
- Built-in USB cable (approximately 3 ft.)
- Size: 3.5"W x 3.5"D x 2.0"H

Part No.	Description	1	5
2120399	4-port USB hub	\$10.95	\$9.95

## USB 3.0 4-Port Hub

Expands a single USB port into four so that there are more ports available to connect devices to a host system.



- Power: 5VDC (2A)
- 5 Gbps
- Certificates: FCC
- SuperSpeed certified

**System Requirements:** Windows® 7, Vista, XP, 2003, 2000, ME/ Mac® OS 10.X/ various Linux Kernels

Part No.	Description	1	5
2119646	USB 3.0 4-port hub	\$69.95	\$59.95

## USB 4-Port Squid Hub

Expands a single USB port into four so that there are more ports available to connect devices to a host system.



- Compatible with USB 1.1 & 2.0 interface
- Supports Plug-and-Play function
- Speed: 1.5 Mbps – 480 Mbps

**System Requirements:** Window® 98, ME, 2000, XP, 7, Vista/ Mac® OS 10.1 or higher

Part No.	Description	1	5
2119654	4-port USB squid hub	\$14.95	\$13.49

## USB 2.0 4-Port Hub

Add multiple high-performance USB 2.0 peripheral devices to your PC. Fully compliant with USB specifications. Fully backwards compatible with USB 1.1 devices.



- Overcurrent detection & protection
- Compatible with USB specification Rev. 2.0 (data rate 1.5/12/480Mbps)
- 1 upstream & 4 downstream ports
- Connects up to 127 USB devices • Plug-and-play
- Supports Windows® 98SE/ME/2000/ Server 2003/ XP/Vista; MAC® OS 8.6 or higher
- Bus-power & self-power mode used
- Automatic connection & speed detection

Part No.	Mfr. Part No.	1	5
1944687	HU2044	\$12.95	\$11.49

**\* USB Hubs Online — Enter Web Code NEM**

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**\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above**



## USB 3.0 2-Port PCI Express Card

Can be inserted into an expansion slot of a computer motherboard to add functionality to a computer system.



- Supports high-speed data transfer rate up to 5 Gbps (10x faster than USB 2.0)
- Supports USB 3.0 hot-swapping and Plug-and-Play capability
- Dimensions: 3.2"L x 2.7"W x 1.6"H

**System Requirements:** Windows® 2000, XP, Vista, Windows® 7, and available PCI-E slot

Part No.	Description	1	10
2119620	USB 3.0 2-port PCI card	\$39.95	\$35.95

## USB 3.0 2-Port PCMCIA Express Card

- Supports high-speed data transfer rate up to 5 Gbps
- Supports USB 3.0 hot-swapping and Plug-and-Play capability
- Dimensions: 4.6"L x 1.6"W x 0.6"H



**System Requirements:** Windows® XP, Vista, Windows® 7, express card/34mm slot

Part No.	Description	1	10
2119638	USB 3.0 express card	\$34.95	\$32.95

## USB Link Adapter

Premier file management and data search device with included Go! Suite software.

- Easy file transfer between two PCs
- No file size limitations
- USB 2.0, Plug-N-Play

**System Requirements:** Windows® 2000, XP (SP2), Vista, Windows® 7



Part No.	Product No.	1	5
2124963	AN2610	\$29.95	\$28.49

## USB 2.0 Active Repeater Cable

This is an active repeater cable and not a passive extension cable for connecting USB devices to your computer. The repeater cable regenerates the USB signal for maximum reliability and performance over extended distances at maximum transfer rates of 480Mbps.



- Repeater cable length: 5m (16.4 ft.)
- Cascades up to 5 to extend distance to 25m (81 ft.) between USB device and computer
- Regenerates the USB signal for maximum reliability and performance over extended distances

**Requirements:** Desktop or laptop with available USB port, Windows® 98SE/ME/2000/XP or Mac OS X

Part No.	Cross Ref. No.	1	5
2075840	AR2500	\$13.95	\$12.55

## QuickNetwork Install Can

- Type: Install can for QuickNetwork panels
- Feature: 110V power supply and cover installed
- Size: 24"



Part No.	Mfr. Part No.	1	5
636607	QN24	\$59.95	\$49.95

## USB 2.0 3-Port Hub with Ethernet

- Integrated 3-port hub with single uplink
- 10/100M Ethernet adapter, full/half duplex
- USB powered
- Plug-N-Play



Part No.	Product No.	1	5
2124921	HE2230	\$34.95	\$33.49

## USB 2.0 Docking Station with Video and Ethernet

- 4 USB 2.0 ports
- 1 10/100M Ethernet adapter
- 1 DVI port, up to 1920 x 1080
- 1 stereo audio in
- 1 headphone/speaker out
- Hot-pluggable, Plug-N-Play



**System Requirements:** Windows® 2000, XP, Vista, Windows® 7

Part No.	Product No.	1	5
2124947	DU2791	\$119.95	\$113.95

## USB 2.0 to DVI Display Adapter

- Add a monitor, LCD or projector using a USB 2.0 port
- Supports up to 6 USB display adapters simultaneously
- Extend and mirror mode support
- Supports resolution up to 1920 x 1080
- Resumes from hibernate and suspend modes
- Bus powered • Size: 3.3"L x 2.2"W x 0.7"H



Part No.	Product No.	1	5
2124912	AN2465	\$79.95	\$75.95

## USB 2.0 to SATA/IDE Combo Adapter

Keep the existing IDE drive while at the same time migrating to the new SATA technology, which provides a transfer rate of up to 150Mbps. Any SATA or IDE drives can be turned into an external USB 2.0 storage device.



- SATA 1.0a and USB 2.0 compliant
- Dual-headed IDE connector (4- and 44-pin) plus one SATA connector that supports 2.5"/3.5"/5.5"
- Operates one IDE and one SATA HDD simultaneously
- External power supply provided

**System Requirements:** IBM compatible Pentium® 233MHz, USB, Windows® 98SE/ME/XP, Mac® OS 8.6 or later

Part No.	Mfr. Part No.	1	5
2075815	AS1200	\$49.95	\$44.95

## USB 2.0 Ethernet Adapter

A high performance, highly integrated USB 2.0 bus Ethernet controller with embedded 7k x 16 bit SRAM.



- USB 2.0 and 1.1 compliant
- IEEE802.3 (10Base-T) & 802.3u (100Base-TX)
- Supports suspend mode and remote wake up via link-up • Size: 2.8"L x 2.0"W x 1.3"H
- Supports full-duplex and half-duplex operations

**System Requirements:** IBM compatible Pentium® 233MHz or faster, 64MB or more, USB port available, Windows® XP/2000/Vista 32/64-bit, Mac® OS 10.x

Part No.	Mfr. Part No.	1	5
1944513	AE2201	\$19.95	\$17.95

## High Speed USB Extender Cable

An active device where the USB signals going in and out of the extension cable are buffered to assure signal quality and adherence to electrical and timing specs.



- Full compliance with USB spec Ver. 2.0/1.1
- Supports 480Mbit/s high speed 12Mbit/s full speed, and 1.5Mbit/s low speed serial data communication
- One upstream port and one downstream port
- Windows® 98 & higher or Mac® OS compatible
- Supports plug & play and hot-swap functions
- USB-A male to USB-A female
- Bus power mode • Length: 16 ft.

Part No.	Cross Ref. No.	1	5
1919174	10U2-24116	\$18.95	\$16.95

## 19" Rack Mount Enclosures

- Ventilation holes on all sides
- Front and back panels are steel w/ aluminum, pre-punched face plates
- 0.12" thick black front panel
- Top, bottom and sides are durable 0.035" steel
- All enclosures have handles except P/N 132813



**Includes:** Mounting screws

Part No.	Dimensions (In.)			Wt. (lbs.)	Pricing	
	H1	H2	D		1	5
132813	1.73	1.25	9.75	6.2	\$39.95	\$34.95
132822	3.46	3.00	9.75	7.9	51.95	46.95
132840	3.46	2.88	11.75	9.1	54.95	49.95
132848	5.22	4.75	11.75	10.6	59.95	53.95
132864	8.56	8.00	13.50	15.4	109.95	99.95

\* Rack Mounts Available Online — Enter Web Code GAT

## 19" Rack Mount Cat 5e Patch Panel

These Cat 5e patch panels feature 110D punch locks that are compatible with KRONE or 110D tools. UL and CUL listed and certified. Cat 5e certified and can be used with T568 A/B installations, color coded blocks for T568 color coding.



Part No.	Description	1	5
208785	24-port patch panel	\$39.95	\$32.95

## Cabinet Mounting Plate for 19" Rack

- Use as industrial chassis mounting plate for servers, PCs or patch panels
- Size: 19.0"W x 15.8"D x 3.5"H
- Made of industrial grade steel and aluminum



Part No.	Product No.	1	10
149500	UP02	\$34.95	\$31.95

## JAMECO ValuePro USB-A Cables w/ Bracket

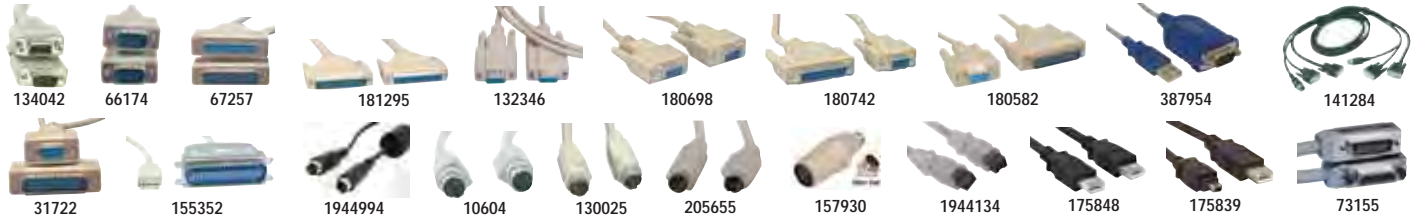
- Add additional USB ports to your PC
- Dual USB-A female connectors • 8"L cable
- Supports data transfer rates of 12Mbps



Part No.	Description	1	10	25
144813	(2) 1x5-pin connector ..	\$4.25	\$3.75	\$3.25
319652	(1) 2x5-pin connector ....	1.49	1.35	1.19

## Computer Cables and Adapters

JAMECO ValuePro



### Extension Cables

• All lines connected straight through

Part No.	Description	Length (ft.)	Color	*Web Code: CCS		
				1	10	100
2075971	DB9 male-to-female w/ thumbscrews and filter, w/ green connectors	6	Black	\$4.49	\$3.95	\$3.49
199639	DB9 male-to-female w/ thumbscrews	6	Black	5.25	4.75	4.25
25701	DB9 male-to-female w/ thumbscrews	6	Beige	5.95	5.35	4.79
148516	DB9 male-to-female w/ thumbscrews	10	Beige	6.95	6.25	5.49
181666	DB9 male-to-male	10	Beige	6.95	6.25	5.49
181286	DB15 male-to-male	6	Gray	6.55	5.95	5.25
181359	DB15 male-to-female	6	Gray	5.49	4.95	4.45
134042	HDB15 male w/ thumbscrews to female w/ nuts	6	Beige	4.95	4.49	3.95
66165	HDB15 male-to-female w/ thumbscrews	6	Beige	7.95	6.95	6.25
148532	HDB15 male-to-female w/ thumbscrews	10	Beige	8.95	7.95	6.95
66174	HDB15 male-to-male	6	Beige	6.95	6.25	5.49
148523	HDB15 male-to-male	10	Beige	5.95	5.35	4.79
224267	DB25 female-to-female w/ thumbscrews	6	Gray	7.95	6.95	5.95
164291	DB25 male-to-female w/ thumbscrews	3	Gray	3.95	3.55	3.05
175291	DB25 male-to-female w/ thumbscrews	3	Black	3.75	3.35	2.95
67257	DB25 male-to-female w/ thumbscrews	6	Gray	7.95	6.95	5.95
39511	DB25 male-to-female w/ thumbscrews	10	Gray	7.95	6.95	6.25
177279	DB25 male-to-female w/ thumbscrews	15	Gray	7.95	6.95	6.25
101996	DB25 male-to-female w/ thumbscrews	25	Gray	11.95	10.75	9.65
181201	DB25 male-to-female w/ thumbscrews	50	Gray	19.95	17.95	15.95
174001	DB25 male-to-male w/ thumbscrews	3	Black	4.95	4.45	3.95
65788	DB25 male-to-male w/ thumbscrews	6	Gray	7.75	6.95	6.25
39538	DB25 male-to-male w/ thumbscrews	10	Gray	6.95	6.25	5.49
179979	DB25 male-to-male w/ thumbscrews	15	Gray	5.95	5.25	4.75
67071	DB25 male-to-male w/ thumbscrews	25	Gray	8.95	7.95	6.95
181295	DC37 male-to-female	6	Gray	5.95	5.35	4.75

### Serial Cables

132346	DB9 female-to-female w/ thumbscrews	6	Beige	\$4.95	\$4.45	\$3.95
196366	DB9 female-to-female w/ thumbscrews	10	Beige	6.95	6.25	5.49

### Monitor Cable

66157	DB9 male-to-male w/ thumbscrews	6	Beige	\$4.95	\$4.49	\$3.95
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### Serial Null Modem Cables

Part No.	Description	Length (ft.)	Color	*Web Code: ABE		
				1	10	100
181404	DB9 female to female (1 & 6-4; 2-3; 3-2; 4-6 & 1; 5-5; 7-8; 8-7)	6	Gray	\$5.55	\$4.95	\$4.49
180698	DB9 female to female (1 & 6-4; 2-3; 3-2; 4-6 & 1; 5-5; 7-8; 8-7)	10	Gray	6.75	5.95	5.45
181438	DB25 male to DB9 female (2-2; 3-3; 5 & 6-4; 7-5; 8-7; 20-6 & 8)	6	Gray	5.55	4.95	4.49
180742	DB25 female to DB9 female (1-4 & 5; 2-2; 3-3; 4-6; 5-7; 6-20; 7-8; 8-8)	10	Gray	5.95	5.49	4.95
180582	DB25 male to DB9 female (2-2; 3-3; 4-5 & 6; 5-7; 6 & 8-20; 7-8)	10	Gray	5.95	5.35	4.75

### USB-A to DB9 Male Serial Cable/Adapters

Part No.	Description	Length (ft.)	Color	*Web Code: NAV		
				1	10	100
387954	DB9 male with jackscrews	2	Gray	\$18.95	\$16.95	\$14.55
2115346	DB9 male with thumbscrews	6	Gray	18.95	16.95	14.55

### Monitor/Mouse/Keyboard/Switch Box Cable

Part No.	Description	Length (ft.)	Color	1	10	5
141284	HDB15 male/female 5-pin DIN male/female DB9 male/female	6	Black	\$10.95	\$9.95	



### AT Adapter Serial Cables

Part No.	Description	Length (ft.)	Color	1	10	100
109584	DB9 female to DB25 male	1	Beige	\$2.95	\$2.65	\$2.25
189333	DB9 female to DB25 male	3	Beige	3.25	2.95	2.49
31722	DB9 female to DB25 male	6	Beige	4.95	4.49	3.95
1945575	DB9 female to DB25 male	6	Gray	3.95	3.49	2.95
155522	DB9 female to DB25 male	10	Beige	5.95	5.35	4.79

### USB-A/DB25 Male to Centronics Parallel Printer Cables

155352	36-pin male centronics to USB-A (USB1.0)	6	Gray	\$9.95	\$8.95	\$7.95
130067	DB25 male to 36-pin centronics male	6	Gray	2.49	2.39	2.25
28716	DB25 male to 36-pin centronics male	6	Gray	4.95	4.49	3.95
28708	DB25 male to 36-pin centronics male	15	Beige	.99	.89	.79

### Printer and Keyboard Cables for Mac®

1944994	8-pin DIN male (with EMI)	3.3	Black	\$2.95	\$2.49	\$2.25
10604	8-pin DIN male	6	Gray	3.95	3.49	3.05
130025	8-pin DIN male	10	Gray	4.95	4.49	3.95

### PS2 and AT Cables

Part No.	Description	Length (ft.)	Color	*Web Code: HAE		
				1	10	100
177261	6-pin mini DIN male to male	2	Gray	\$2.49	\$1.95	\$1.49
174772	6-pin mini DIN male to male	6	Black	3.95	2.95	2.49
174908	6-pin mini DIN male to male	6	Beige	3.49	2.95	2.49
112628	6-pin mini DIN male to male	10	Beige	7.95	7.25	5.95
205655	6-pin mini DIN male to male	25	Beige	6.95	5.95	5.25
28549	6-pin mini DIN male to female	6	Beige	4.75	4.25	3.95
111053	6-pin mini DIN male to female	10	Beige	4.95	4.49	3.95
114981	5-pin mini DIN male to female	6	Beige	1.95	1.75	1.49

### Keyboard Adapter

157930	5-pin DIN female to 6-pin mini DIN male	0.15	Beige	\$3.35	\$2.9	\$2.5
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### IEEE Firewire

Part No.	Description	Length (ft.)	Color	*Web Code: FAE		
				1	10	100
1944134	9-pin to 9-pin	6	Gray	\$12.95	\$11.95	\$10.95
175848	6-pin to 6-pin	6	Black	5.95	5.35	4.75
175839	4-pin to 6-pin	6	Black	3.49	2.95	2.65

### IEEE 488

Part No.	Description	Length (ft.)	Color	*Web Code: EAJ		
				1	10	100
73155	24-pin GPIB	3.3	Gray	\$39.95	\$35.95	\$31.95
115782	24-pin GPIB	6.6	Gray	41.95	36.95	32.95
115802	24-pin GPIB	13.1	Gray	42.95	37.95	33.95

### External Serial ATA

2115645	7-pin to 7-pin	3	Black	\$6.95	\$5.95	\$4.95
2115653	7-pin to 7-pin	6	Black	6.95	5.95	4.95

### SATA Data Cables

Part No.	Description	Length (ft.)	Color	*Web Code: SAC		
				1	10	100
2114327	7-pin right angle/right angle	1.6	Trans. red	\$2.49	\$2.25	\$1.95
2114386	7-pin right angle/straight	1.6	Red	2.95	2.49	2.25
2114301	7-pin straight/straight	1.6	Trans. red	2.75	2.49	2.25
2114407	7-pin straight latching/straight latching	1.6	Red	3.95	2.95	2.49

### Disk Drive Cables

Part No.	Description	Length (ft.)	Color	*Web Code: TAE		
				1	10	100
32686	40-pin (IDE)	1.5		\$1.49	\$1.25	\$0.99
32715	50-pin (SCSI)	1.5		3.75	3.49	2.95
2125801	34-pin floppy and 39-pin HD (Ultra ATA)	0.9 / 1.5		3.95	2.95	2.49

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



JAMECO ValuePro

## Computer Cables and Adapters (Continued)



### USB Cables

Part No.	Description	Length (ft.)	Color	1	10	100
326474	USB-A male to male (2.0)	3	Beige	\$1.95	\$1.75	\$1.59
229682	USB-A male to male (2.0)	6	Beige	2.05	1.85	1.65
222033	USB-A male to male (2.0)	6	Black	2.05	1.85	1.65
229690	USB-A male to male (2.0)	10	Beige	2.25	1.95	1.75
229569	USB-A male to male (2.0)	10	Clear	2.19	1.95	1.79
222050	USB-A male to male (2.0)	15	Black	3.25	2.95	2.65
229577	USB-A male to male (2.0)	15	Clear	2.95	2.79	2.59
326482	USB-A male to female (2.0)	3	Beige	1.95	1.75	1.59
229771	USB-A male to female (2.0)	6	Beige	2.05	1.85	1.65
222068	USB-A male to female (2.0)	6	Black	2.05	1.85	1.65
229623	USB-A male to female (2.0)	6	Clear	2.25	1.95	1.75
229789	USB-A male to female (2.0)	10	Beige	2.25	1.95	1.79
222076	USB-A male to female (2.0)	10	Black	2.45	2.19	1.95
229631	USB-A male to female (2.0)	10	Clear	2.25	1.95	1.75
229797	USB-A male to female (2.0)	15	Beige	2.95	2.75	2.49
222084	USB-A male to female (2.0)	15	Black	3.25	2.95	2.65
229711	USB-A male to USB-B male (2.0)	3	Beige	1.95	1.75	1.59
222608	USB-A male to USB-B male (2.0)	3	Black	1.95	1.75	1.59
229585	USB-A male to USB-B male (2.0)	3	Clear	1.95	1.75	1.59
229730	USB-A male to USB-B male (2.0)	6	Beige	2.05	1.85	1.65
222010	USB-A male to USB-B male (2.0)	6	Black	2.05	1.85	1.65
229594	USB-A male to USB-B male (2.0)	6	Clear	2.05	1.85	1.65
229738	USB-A male to USB-B male (2.0)	10	Beige	2.35	2.09	1.85
222018	USB-A male to USB-B male (2.0)	10	Black	2.35	2.09	1.85
229607	USB-A male to USB-B male (2.0)	10	Clear	2.35	2.09	1.85
229762	USB-A male to USB-B male (2.0)	15	Beige	3.25	2.95	2.65
222026	USB-A male to USB-B male (2.0)	15	Black	3.25	2.95	2.65
229614	USB-A male to USB-B male (2.0)	15	Clear	3.25	2.95	2.65
2095218	USB-A male to USB-B male (3.0)	6	Black	5.95	5.39	4.95
2095226	USB-A male to USB-B male (3.0)	10	Black	7.95	7.25	6.49
673715	USB-A male to 4-pin mini USB	6	Black	3.49	3.25	2.95
2081481	USB-A male to 5-pin mini USB	5.5	Black	2.25	1.95	1.65
673694	USB-A male to 5-pin mini USB	6	Black	2.75	2.45	2.25

\*Web Code: NAV

### USB Adapters

Part No.	Description	Length (in.)	Color	1	10	100
2119769	USB-A male to 5-pin mini USB female	1.4	Black	\$2.69	\$2.55	\$2.39
2119777	USB-A female to 5-pin mini USB female	1.4	Black	2.69	2.55	2.39
2119689	USB-A male to 5-pin mini USB male	2.0	Black	1.95	1.75	1.59
2119697	USB-A female to 5-pin mini USB male	2.0	Black	1.95	1.75	1.59

### USB Gender Adapter

316806	USB A female to female	1.5	Beige	\$2.95	\$2.65	\$2.39
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### Ribbon Cable Assemblies

Part No.	Description	Length (ft.)	1	10	100
12408	DB25 male to female (28AWG)	4	\$4.95	\$4.45	\$3.95
208582	DB9 male to female (28AWG)	6	4.95	4.49	3.95

\*Web Code: VAA

### CD-Rom Audio Cable

127546	For SONY/MPC2	2	\$1.95	\$1.75	\$1.49
168613	Universal	1.6	.99	.95	.89

### Disk Drive Power Splitter and Adapters

28354	4-pin molex male to 2 female, 18AWG (5.25")	0.5	\$2.75	\$2.49	\$1.95
277528	4-pin molex male to 2 female, 20AWG (5.25")	1.7	1.95	1.75	1.49
72304	4-pin molex male to 2 female, 22AWG (3.5")	0.4	3.75	3.49	2.95
28397	4-pin molex male to male, 22AWG (3.5")	0.3	4.75	4.25	3.79

\*Web Code: OAE

### AT/ATX Power Supply Extension Cables

170238	20-pin male to female (18AWG)	1.2	\$8.95	\$7.95	\$6.95
2114589	4-pin male to female (18AWG)	1.1	4.49	3.95	3.49

### SATA Disk Drive Power Adapters

2125894	4-pin molex male (5.25") to 15-pin straight female (SATA)	0.5	\$1.95	\$1.75	\$1.59
2114343	4-pin molex male (5.25") to 15-pin straight female (SATA)	0.5	2.95	2.49	1.95
2114351	4-pin molex male (5.25") to dual 15-pin straight female (SATA)	0.5	3.49	2.95	2.49
2114360	4-pin molex female (5.25") to 15-pin straight male (SATA)	0.6	4.95	4.49	3.95
2114378	4-pin molex male (5.25") to 15-pin right angle female (SATA)	0.5	2.95	2.49	1.95

\*Web Code: SAD

## 3.5" TFT LCD Test Monitor

The unit is also wearable, leaving both hands free to work, and it features an OSD for brightness & contrast. Accessories for this LCD include the Armful Bag, BNC with cable, power cable & battery case.

- High resolution (960W x 234H mm dots) flat screen
- Video signal: NTSC/PAL auto switch
- Power consumption: 2W max.
- Backlight: LED 6 type
- Input signal: 1Vp-p, 75
- ABS HB plastic case
- Power supply: (8) AA batteries or 12VDC adapter
- Outlook size: 96mmL x 98mmW x 25mmD
- Weight: 1.37 lbs. with accessories and package

**Wearable**

Part No.	Product No.	1	5
2111898	15-MC04	\$194.95	\$189.95

## Audio/Video Adapter

- Converts impedance of video/audio signals to 100Ω for transmission over CAT 5 UTP cable
- Support both NTSC or PAL video signals
- Signal pairs: video (BNC), CAT pairs 4(RJ45); audio 1 (RCA); CAT pair 3 (RJ45); audio 2 (RCA), CAT pair 2 (RJ45)

Includes: Mounting hardware

Part No.	Description	1	5
220881	BNC/RJ45	\$22.95	\$20.95

## 2.4GHz Wireless Audio/Video Transmitter & Receiver

- 4-ch transmitter selectable/4-ch receiver viewable
- Video input/output: 1Vp-p composite @ 75Ω
- Audio input/output: 2Vp-p typical, 2.7Vp-p max. @ 600Ω • RF impedance: 50Ω
- Size: 4.3"W x 3.4"D x 1.2"H

Includes: 12V wall adapter, antenna & mounting hardware

### 2115784: Transmitter

- Current consumption: 350mA typical; 650mA at start-up • Output power: 1 watt
- Alarm input: TTL/CMOS (level detection)

### 2115709: Receiver

- Sensitivity: -82dBm typical
- Current consumption: 250mA typical

Part No.	Description	1	5
2115784	2.4GHz wireless trans.	\$149.95	\$134.95
2115709	2.4GHz wireless receiver	89.95	79.95
179864	2.4GHz SMA RF antenna	5.49	4.95
2081633	2.4GHz SMA antenna	1.75	1.49

See pages 60-62 for Audio/Video Cables, Adapters, Plugs & Jacks

## USB Wireless Audio Adapter

Wirelessly transmit music from your PC or Notebook to any room or directly to your headphones. Instant wireless audio system in minutes!

- Transmitter distance of 135 ft.
- No more wires or cables to connect
- Proprietary 2.4GHz wireless solution
- Easy system expansion with stereo sound support
- Supports Windows® 2000, XP, and Vista
- Plug and Play, quick and convenient use, no driver/software installation required • 35mm jack

\*Web Code: WLS

Part No.	Mfr. Part No.	1	5
2120882	WA2200	\$44.95	\$42.95

## Wireless FM Audio Transmitter

Connects to any audio output source (i.e. iPod, MP3 player, mobile phone, etc.) to play music through your car stereo system.

- Power: 12VDC • Current: 150mA
- Earphone line: 1.5 meter w/ 3.5 meter phone jack
- Dimensions: 50mm x 30mm x 20mm

Part No.	Description	1	5
2119611	Wireless FM audio trans.	\$19.95	\$17.95



## Mini DVR Camera

### Sound Activated Recording

Compact and portable, this mini DVR camera provides crisp and vivid video as well as a sound-activated recording feature. This camera records in AVI format with audio and stores to a MICRO SD card (included). Easily connect via USB port to you PC or laptop for charging the camera or retrieving files.

- Battery life: 115 minutes of continuous recording
- 90 minutes of available space for recorded video and audio files
- Built-in lithium battery • FOV: 62°
- 30 FPS for 720 x 480 resolution
- Color CMOS camera, 1.0 lux
- Compatible with Windows® ME, 2000, 2003, XP, Vista, Mac OS 10.4

Includes: Micro SD card, USB cable and mounting accessories

Part No.	Product No.	1	5
2124517	EC-MINIDVR	\$69.95	\$65.95

World's  
Smallest  
DVR



## Mini Waterproof Color CCD Camera

This miniature weather-proof color camera is perfect for all wet area applications and can be mounted outdoors without the need for an additional housing or cover.

- 3.6mm F2 lens
- 1/4" CCD imaging chip
- Built-in electronic iris control
- 0.5 lux @ F1.2
- 420 line resolution

Requires: 12VDC @ 140mA power supply (recommend P/N 162996, pg 113)

Part No.	Product No.	1	5
2124891	EC-597	\$99.95	\$94.95



## IR Illuminated Color Camera

This compact weatherproof camera provides high-quality color images in daylight and converts to infrared illumination in low light to provide a clear B&W picture.

- IR illuminated low light/no light
- 1/4" image sensor chip
- Built-in electronic iris • 45° IR range
- Built-in 30 element IR illuminator
- 420 line resolution • 6mm F2.0 lens
- 1.0 lux sensitivity (0 lux with IR off)

Requires: 12VDC @ 200mA power supply (recommend P/N 162996, pg 113)

Part No.	Product No.	1	5
2124904	EC-264	\$119.95	\$109.95



## Color Camera with 8mm Lens

- 1/3" color Sony super HAD CCD
- Horizontal res: 420 lines
- Min. illumination: 0.05 lux
- Electronic shutter: 1/60 ~ 1/120,000 sec.
- 510(H) x 492(V) EIA signal format
- Auto iris lens: DC drive/video driver
- Video output: 1Vp-p, 75Ω • Vertical freq.: 60Hz
- Audio output: 2Vp-p max.Ω
- Backlight, auto-gain switch selectable
- S/N ratio: 50dB
- Auto-tracing white balance

Power Requirements: 12VDC @ 150mA

Part No.	Product No.	1	5
2128112	15-CC25	\$129.95	\$119.95



NEW  
MARKED IN PINK

## Waterproof Tube-Style IR Color Camera

### NTSC Format

- Auto white balance and gain control
- 1/4" CCD image sensor
- Scanning system: 2:1 interlace
- 0 lux w/ 20 IR LEDs
- 880 ~ 940nm infrared wavelength
- 512(H) x 492(V) • 4.3mm lens with F1.8
- For indoor and outdoor use
- 420 horizontal line resolution
- 59.94Hz vertical frequency
- S/N ratio: >48dB • Internal synchronization
- Video output: 1Vp-p, 75Ω • Size: 2.1"Dia. x 3.8"L
- Up to 1/100,00 sec. electronic shutter

Requires: 12VDC @ 160mA power supply (recommend P/N 162996, pg 113)

Includes: Mounting hardware

Part No.	Product No.	1	5
319901	15-CM25WM	\$119.95	\$109.95



\*Outdoor Camera Enclosures— Enter Web Code LBB

\*Video Accessories — Enter Web Code YBE

## CMU Camera

- Tracks the position and size of a colorful or bright object
- Measures the RGB or YUV statistics of an image region
- Dumps a bitmap showing the shape of the tracked object
- Automatically acquires and tracks the first object it sees
- Physically tracks using a directly connected servo
- Supports multiple CPU boards on one camera for parallel processing
- Works with Parallax BASIC Stamp & PIC chips

Part No.	Description	1	5
358467	CMU camera, serial	\$129.95	\$119.95



## Mini Color Camera

- 1/3" Omnivision CMOS
- 510(H) x 492(V), NTSC
- 380 TV lines, 3 lux/F1.2
- Video output: 1Vp-p, 75Ω
- Electronic shutter: 1/50 sec. to 1/100,000 sec.

Includes: 8V @ 500mA power adapter, 9V battery clip with 2.1mm x 5.5mm female plug

Part No.	Product No.	1	5
2115362	CM203CA	\$29.95	\$26.95

\*Cameras — Enter Web Code MBB



## 900MHz Mini Wireless Color Camera

### With Built-In Microphone

- Receiving frequency: 902-928MHz
- Video output: 1Vp-p, 75Ω
- Audio output: 200mVp-p, 10kΩ
- Power consumption: <2W
- Tuning knob on receiver for fine tuning picture

Includes:

8VDC @ 500mA & 12VDC @ 500mA adapter, receiver with antenna, mounted color camera, 9V battery clip with 1.3mm x 3.5mm female plug

Part No.	Description	1	5
2081781	Mini wireless camera	\$59.95	\$53.95



## SONY® Color CCD Camera

### Sony Chipset

- 1/4" Sony super HAD CCD sensor
- 510(H) x 492(V), NTSC
- Furnished mini lens: 3.6mm
- Minimum illumination: 0.5 lux @ F2.0
- Supports these functions: auto electronic shutter (AES), auto iris control (AIC), auto gain control (AGC), auto white balance (AWB), back light compensation (BLC) and flicker less (FL)
- Video drive iris control; high/low switchable auto gain control; on/off backlight compensation
- Video output: 1Vp-p, 75Ω

Requires: 12VDC @ 120mA power supply (recommend P/N 100095, pg 114)

Includes: Power/signal cable & mounting hardware

Part No.	Description	1	5
213436	Enclosed color camera	\$154.95	\$139.95



## Black & White Camera with Lens

### EIA Format

- 1/3" CCD image sensor
- 510(H) x 492(V)
- Horizontal res.: >350 lines
- Sensitivity: 0.7 lux/F2.0
- Pwr. supply: 12VDC (recommend P/N 162996, pg 113)
- Video output: 1Vp-p, composite video 75Ω
- Power consumption: 110mA • FOV: 92°
- Electronic shutter: 1/125,000 sec. (linear)
- S/N ratio: 46dB • Size: 1.3"L x 1.3"W x 1.2"H

Part No.	Product No.	1	5
171029	15-BB13L-1	\$44.95	\$39.95



## Mounting Bracket for Enclosed Camera

- Material: white plastic • 1/4" x 20 unf.
- Swivel angle: 360° • Tilt angle: 90°
- For use with enclosed cameras

Part No.	Max Load	Height	1	5
170982	6.6 lbs.	2.0"	\$3.95	\$3.49



## Web Enabled Catalog

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## Handbooks, Project Guides & Reference Books

★ Web Code: FOR

### Forrest M. Mims III Engineer's Guides

One of the most widely read electronics authors in the world. Forrest M. Mims, III has written over 60 books and has been honored twice for excellence by the Computer Press Association. "Getting Started in Electronics" has sold more copies than any other book on the subject. It is a complete electronics course in just 128 pages! Mims teaches the basics and takes you on a tour of analog and digital components. He explains how they work and shows how they can be combined for various applications. It also includes assembly tips and 100 electronic circuits and projects to build and test. If you're up for a challenge, see Forrest's Puzzler on page 99 or Forrest's Recipe on page 80.



Part No.	Description	Pages	Price
2112743	Forrest M. Mims III Engineer's Guide to Electronics Volume I: Timer, OP Amp, Optoelectronic Circuits & Projects	124	\$13.95
2112751	Forrest M. Mims III Engineer's Guide to Electronics Volume II: Science & Communication Circuits & Projects	140	13.95
2112760	Forrest M. Mims III Engineer's Guide to Electronics Volume III: Electronic Sensor Circuit & Projects	144	13.95
2112778	Forrest M. Mims III Engineer's Guide to Electronics Volume IV: Electronic Formulas, Symbols & Circuits	192	13.95
2112786	Forrest M. Mims III Getting Started in Electronics, A Complete Electronics Course	128	19.95

### Handbooks, Project & Reference Books

Whether you're an engineer or hobbyist Jameco has the book for you. Jameco offers a broad selection of reference books, project books and pocket handbooks to guide you through all of your projects A through Z! Don't see what you need below be sure to check out our website for our complete selection of reading material. Use Web Code BKS.

★ Web Code: BKS



Part No.	Description	Pages	Price
2112815	Basic Communication Electronics: Explains analog electronic devices and circuits, how they work and how they are used to build communication systems with an emphasis on semiconductor devices and integrated circuits (ICs)	224	\$21.95
2112807	Basic Digital Electronics: Explains digital system functions and how digital circuits are used to build them	192	21.95
2112794	Basic Electronics: Explains electronic devices and circuits, how they work and how they are used	224	21.95
677951	Modern Solder Technology, Competitive Electronics Manufacturing	622	49.95
357659	Mondotronic, Muscle Wire Project Book Sample kit	128	34.95
141330	Muscle Wire Project Book, 3rd Edition (for more muscle wire & kits, see page 193)	128	19.95
2123258	Pocket PC Reference Book, 14th Edition. This book covers troubleshooting error codes, Windows® Vista & 7, new processors and drive support	1088	14.49
305171	Rechargeable Batteries, Application Handbook. This book covers sealed nickel-cadmium and sealed lead-cells.	290	39.95
88225	Texas Instruments TTL Databook. Databook that contains Texas Instruments TTL logic	2140	34.95
2113447	Programming & Customizing the Multicore Propeller Microcontroller: Official Guide by Parallax	475	39.95



## Alternative Energy Kits

★ Web Code: NRG

Horizon Fuel Cell Technologies has become the world's largest volume producer of commercial fuel cell products, serving customers in over 40 countries. The launch of the "H-Racer" toy-scale fuel cell car in 2006 offered a first glimpse of the company's unique technology that won several consumer product design awards, including a Time Magazine "Best Invention" award. Presently, Horizon produces extremely compact, lightweight, and complex hydrogen generation solutions suitable for electronic hobbyists, including renewable energy science experiment sets and battery-free kits.



Part No.	Mfr. Part No.	Description	1	5
2095007	FCJJ-23	H-Racer 2.0 is the world's smallest hydrogen fuel cell car equipped with remote-control steering and light emitting features with the car .....	\$119.95	\$109.95
2112137	FCJJ-25	H2GO Hybrid Electric Hydrogen RC Vehicle runs on energy from the sun and water and combines fuel cells for cruise power .....	129.95	119.95
		Not even the remote control needs batteries		
2095015	FCJJ-27	Alternative Energy kit that combines solar, wind, and fuel cell technologies in a mini-renewable energy system .....	199.95	189.95
2112145	FCJJ-29	Wind Pitch is a miniature real-working wind turbine (wind power generator) designed to evaluate the pitch (setting angle) .....	89.95	82.95
		of the profiled blades. Up to 12 profile blades can be installed for evaluation		
2112153	FCJJ-26	Hydro-Wind Turbine kit invents clean energy applications using fuel cells and renewable hydrogen-harness the energy of the wind .....	89.95	79.95
2112188	FCJJ-22	Bio-Energy kit uses ethanol as fuel source. This fuel cell kit directly converts ethanol (alcohol) to electricity silently and without any combustion ..	89.95	79.95
2112161	FCJJ-11	Fuel Cell Car Science, reversible PEM fuel cell combines electrolysis & power conversion in an autonomous car .....	59.95	53.95
2112170	FCJJ-16	Solar Hydrogen Education; invent clean energy applications using fuel cells and renewable hydrogen .....	64.95	58.95
2112196	FCJJ-24	Renewable Energy Monitor with software; 2-line LCD screen displays real time voltage, current, power, joules, resistance and RPM speed .....	89.95	79.95
		Compatible with all Horizon's clean energy education kits (2095007, 2095015, 2112145, 2112153, 2112161, 2112170)		

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.





Power Function Kit

2125721



Motorbike

2128454



Rescue Helicopter

2129174



Container Truck

2117368



Mobile Crane

2117376



Motorized Excavator

2117384



Tyrannosaurus Kit

242923



Coptermech

2128382



Mouse Robot

358192



Hyper Peppy Robot

2128323



Soccer Insect Kit

358379



Kabuto Mushi Robot

2128358



Running Micro Bug

200328



Relay Card Kit

239476



Titan Tank Kit

2128374



Boxing Robot

401533



## Audio Analyzer Kit

**\*Educational & Robotic Kits — Enter Web Code ERK**

You can hear the music, but have you seen it? The Audio Analyzer Kit is an advanced solder kit with a large backlit LCD that displays peak power, RMS power, mean dB, peak dB, and it can even display a linear audio spectrum or 1/3 octave audio spectrum. It also adds a high-tech look to your audio equipment.



Part No.	Mfr. Part No.	Description	1	5
2120815	K8098	Panel mountable audio analyzer kit	\$74.95	\$69.95



## Mindstorms NXT 2.0

Create the smartest, strongest and most advanced LEGO robots with the Lego Mindstorms NXT 2.0. Bigger and revised element assortment of 619 pieces, 16 building and programming challenges for 4 new fun and action packed robot models.



- 3 interactive servo motors with built-in rotation sensors
- 1 ultrasonic sensor
- NXT 32-bit microcontroller with 256k memory
- Support for Bluetooth, USB 2.0
- Color sensor with triple functionality: color sensor/light sensor/color lamp
- 2 touch sensors

Part No.	Mfr. Part No.	No. of Pieces	Price
2082644	8547	619	\$279.95

**\*Additional Lego Kits — Enter Web Code LEG**



## Lego Technic Kits

## Electronic Kits



Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Price
2125721	8293	Power functions kit, add a motor to your legos	10	BEG	9.5 x 5.7 x 2.4	\$29.95
2128454	8051	Motorbike or Chopper Motorcycle, working drive chain and suspension	467	BEG	—	39.95
2129174	8068	Rescue Helicopter or Medical Helicopter	408	INT	—	39.95
2117368	8052	Container Truck or Tipper Trailer	686	INT	—	69.95
2117376	8053	Mobile Crane or Harbor Crane, 360° and extends 23.5"	1289	INT	—	99.95
2117384	8043	Motorized Excavator or Tracked Loader	1123	INT	—	199.95

## Robotic and Computer Control Kits

**\*Web Code: ERK**

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing	
							1	5
242923	21-601	Mechanical Wooden Tyrannosaurus kit	—	BEG	1.5 x 3.0 x 6.5	0.9	\$14.95	\$13.49
2128382	21-604	Coptermech, Mechanical Motorized Wooden kit, no soldering, 2xAAA batteries required	120	BEG	—	0.5	15.95	13.49
358192	70068	Wall Hugging Mouse Robot kit	47	BEG	—	0.5	19.95	17.95
357341	3-882	Sound-Activated Jungle Robot kit	87	BEG	—	1.2	22.95	21.95
2128323	OWI-969	Hyper Peppy Robot, impact and sound sensors	50	BEG	—	1.1	32.95	29.95
358379	71107	6-legged Soccer Insect kit w/ 2-ch wired remote control	40	BEG	—	1.1	34.95	32.95
358230	70104	Remote Control Bulldozer kit	130	BEG	—	1.1	35.95	32.95
358272	70162	Design a robot w/ this RC Robot Construction set! Lift, scoop and drop all kinds of stuff.	144	BEG	—	1.0	49.95	47.95
2128358	OWI-8800	Kabuto Mushi Robot kit, IR remote, 4 motors, controllable claw; for ages 10+	100+	BEG	8.0 X 6.8 X 8.8	2.0	56.95	52.95
200328	MK127	Light-Following Running Micro Bug kit	26	INT	4.0 x 2.4	0.2	18.95	16.95
200336	MK129	Light-Seeking Crawling Micro Bug kit	29	INT	4.0 x 2.4	0.2	19.95	17.95
239476	K2633	Relay Card kit (req. pwr supply P/N 133891 pg 114)	29	INT	3.0 x 2.7	0.4	19.95	17.95
386708	21-880	Line Tracking Robot Mouse (solder required)	130	INT	3 x 3 x 3	0.9	22.95	20.95
2128315	K6200	0-60 hr. Start/Stop Timer, relay out: 5A/220V, power supply: 24V/50mA, 110VAC	53	INT	—	0.5	24.95	23.95
358352	75020	Line Tracing Snail Robot kit	40	INT	—	2.0	34.95	31.49
2128374	21-531N	Titan Tank kit, IR remote control, 4-ch selection for battle, 4xAAA & 4XAAA batteries required	121	INT	—	1.5	34.95	31.49
401533	71110	Boxing Robot kit (single), 2-channel	84	INT	—	0.4	35.95	32.95

Continued on next page

**\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above**



## Electronic Kits (Continued)

**NEW**  
MARKED IN PINK

★ Web Code: ERK

### Robotic and Computer Control Kits (Continued)

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing	
							1	5
2123936	MK-179	RFID Proximity Card Reader kit, include 2 tags EM4100 Compatible	52	INT	2.6 x 2.4 x 0.8	—	\$36.95	\$34.95
2128331	OWI-536	3-In-1 All Terrain Tracked Robot; transform to a forklift, rover or gripper; wired remote control	—	INT	—	—	45.95	42.95
401541	71113	Box w/ your friends w/ this kit of Remote Controlled Boxing Robots. They're fun for everyone	170	INT	—	0.8	59.95	54.95
386610	21-886	Terrain Escape Robot kit with infrared emitting diode and receiver module	—	EXP	5 x 5 x 5	0.9	22.95	19.95
358045	CYBUG	The CYBUG Scarab kit uses touch and light sensors to find or avoid light. Requires soldering	83	EXP	4.5 x 4	0.4	49.95	47.95
140821	972K	Build the Spider 3 Walker Robot & watch it intelligently avoid any obstacle it faces. Requires soldering	158	EXP	12.0 x 7.0 x 3.5	1.2	59.95	56.95
159345	007/IBM	Robotic Arm Interface kit for P/N 157366 (below)	5	EXP	3 x 2 x 1	1.0	69.95	64.95
157366	007	Unassembled Robotic Arm Trainer kit, Five axis motion and five switch wired controller	106	EXP	14.2 x 20.1	4.5	74.95	69.95
2123952	K8090	8-chan. USB relay card, up to 16A/relay, can use with iphone application	124	EXP	6.3 x 4.2 x 1.2	—	74.95	71.49

### Audio Transmitters, Amplifier, Sound Generator and Detection Kits

2123944	MK-182	Digital Echo Chamber kit, echo effect, line-in & out, output 8Ω, 500mW	63	BEG	3.35 x 2.76 x 0.78	—	\$22.95	\$20.95
147571	MK103	Voice Activated kit, Requires 8-15VDC Power Supply or 9V battery, Sound Activates 4 Flashing LEDs	33	INT	2.5 x 1.6 x 1.4	0.1	8.95	7.95
117612	K1803	Univ. Mono Pre-Amp kit (req. 10-30VDC pwr supply)	17	INT	1.2 x 1.8	—	10.95	9.95
662670	EBST-11	Audio Stereo Amplifier Kit, 1 watt	32	INT	2.8 x 2.3	—	9.95	8.95
151204	AA-1	Super Snooper Big Ear Audio Amplifier kit	17	INT	1.8 x 1.0 x 0.6	—	10.95	9.95
127255	K4001	7-Watt Amplifier kit, Requires 15VDC @ 500mA Power Supply, Music Output Power: 7-Watts, 4	22	INT	2.2 x 1.4	—	17.95	15.95
211772	MK118	FM Radio kit, 88-108MHz	65	INT	4.8 x 3.3	—	27.95	24.95
151239	FMST-100	FM Stereo Transmitter Mini kit	37	INT	2.7 x 2.0	—	31.95	28.95
129138	K4003	30W Stereo Pwr Amp. (req. 2x 12VDC @ 2A pwr supplies)	38	INT	2.8 x 2.0	—	33.95	30.95
127562	K4401	Sound Generator kit with 10 unique sounds	61	INT	2.8 x 2.8	—	34.95	31.95
2120815	K8098	Audio Analyzer, display EMS/peak power, mean/peakdB, audio spectrum	—	EXP	5" x 2.5" LCD	—	74.95	69.95
2120823	K8095	MP3 Player Kit, create your own jukebox, sound effects, mp3 and more! SD card operation, Hi-quality VLSI decoder, vol. control up to 32GB, up to 1024 folders with 16,348 songs each	—	EXP	5.11 x 3.9	—	89.95	84.95

### Test and Measurement Kits

662725	EBLOG-300A	Logic Probe kit	13	BEG	4.0"L x 0.75"Dia.	—	\$10.95	\$9.95
2119662	SL004	Electronics Discovery kit, 16+ projects work with LEDs, switches, buttons, sensors	130	BEG	10 x 6.7 x 3	1	49.95	47.49
129091	K7102	Metal Detector kit, sensitive within 8cm (req. 9V battery)	22	INT	2.1 x 2.1	0.4	17.95	15.95
20685	JE2206	Function Generator kit	21	INT	4.1 x 1.5	0.1	27.95	24.95
2109173	28014	USB oscilloscope, 2-ch digital, 3 probes, 20V max. 200kHz	—	—	5 x 2.25 x 5.0	—	139.95	132.95

### Power Supply and Motor Kits

2115750	34020	Breadboard Vreg kit, 6-18Vin, 5V @ .5A out, 2.1mm plug	12	BEG	—	—	\$7.95	\$7.49
181833	VM-1	DC Voltage Monitor kit with 7 LED display	46	BEG	2.7 x 1.3	0.2	9.95	8.95
2119751	C-8051	Adjustable Gear Motor kit, 4k-14k rpm	22	BEG	4.3 x 4.9	—	11.95	11.49
117621	K1823	1.5A @ 1.5-35VDC Power Supply kit	12	INT	2.1 x 2.1	0.3	15.95	14.49
20626	JE215	Dual Adjust Regulated Power Supply kit	48	INT	5.1 x 3.5 x 2.0	2.1	24.95	22.49
160047	3-301	Mini-Dual H-Bridge Motor Driver kit	31	INT	1.13 x 1.0	0.1	24.95	22.49
358248	70097	Twin Motor Gearbox kit	61	EXP	—	0.3	14.95	13.45
120539	K8004	DC Pulse Width kit, Proportional DC to PWM	40	EXP	3.3 x 1.9 x 1.8	0.5	24.95	22.45
357851	3-773	Maxi-Dual H-Bridge Motor Driver kit	54	EXP	—	0.2	59.95	53.95

### Distance and Light Kits

147635	MK100	Flashing Christmas Tree kit	30	BEG	4.0 x 2.4 x 1.0	—	\$6.95	\$6.25
2119671	PAPERV1	Papertronics Vol. 1, makes 3 paper lunar modules that light up with LEDs	13	BEG	11 x 9 x 0.5	—	14.95	14.49
157964	LED1007	Infrared Illuminator kit	41	BEG	2" Dia.	0.1	15.95	14.49
2123928	MK149	Love tester kit, 10-LED "love level" indicator	44	BEG	4.1 x 3.1 x 0.98	—	15.95	14.95

 <p>RFID Proximity Card</p> <p>2123936</p>	 <p>Terrain Tracked Robot</p> <p>2128331</p>
 <p>CYBUG Scarab</p> <p>358045</p>	 <p>The Spider</p> <p>140821</p>
 <p>Robotic Arm Interface</p> <p>159345</p>	 <p>Robotic Arm</p> <p>157366</p>
 <p>USB Relay Card</p> <p>2123952</p>	 <p>Audio Amplifier Kit</p> <p>151204</p>
 <p>FM Radio Kit</p> <p>211772</p>	 <p>MP3 Player Kit</p> <p>2120823</p>
 <p>Electronics Discovery Kit</p> <p>2119662</p>	 <p>USB Oscilloscope</p> <p>2109173</p>
 <p>Breadboard Voltage Regulator</p> <p>2115750</p>	 <p>Twin Motor Gearbox Kit</p> <p>358248</p>
 <p>Paper Lunar Modules</p> <p>2119671</p>	 <p>Love Tester Kit</p> <p>2123928</p>

Continued on next page

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.

## Electronic Kits (Continued)

★ Web Code: ERK

### Distance and Light Kits (Continued)

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing	
							1	5
211764	MK116	Santa Sleigh and Reindeer kit	201	BEG	5.7 x 3.2	0.1	\$19.95	\$17.95
358580	3-337	Modulated Infrared Reflective Detector kit	17	BEG	0.9 x 0.8 x 0.4	0.1	19.95	17.95
2128286	MK172	60 LED sound star, responds to sound and music like a "VU-meter"	113	BEG	4.2 x 4.4 x 1.4	0.1	21.95	19.95
2128278	MK170	60 LED star, 24 flashing patterns, soldering req.	94	BEG	4.1 x 4.3 x 1.4	0.1	26.95	24.95
147580	MK102	Flashing LED kit, 2 red 5mm LEDs, requires 9V battery	23	INT	1.3 x 1.4 x 0.6	0.1	7.95	6.95
147555	MK101	Flashing LED Sweetheart kit, flashes 25 T1 (3mm) red LEDs, requires 9V battery	46	INT	1.3 x 2.3 x 1.3	0.1	9.95	8.95
211781	MK130	3D Flashing Christmas Tree kit	36	INT	3.1 x 3.5 x 4.0	0.1	9.95	8.95
236072	MK117	Deluxe Christmas Tree kit	208	INT	3.2 x 5.6	0.2	19.95	18.95
200310	MK124	Scrolling Message kit, 16 characters	76	INT	3.5 x 2.6 x 1.8	0.2	22.95	20.95
177092	IR-2	Infrared Transmitter & Receiver kit (req. 9V battery)	26	INT	1.0 x 0.8	0.1	24.95	22.49
147643	K4304	10-LED Mono VU Meter kit	36	INT	2.7 x 1.4	0.3	24.95	22.49
129120	K3502	Parking Radar kit	55	INT	4.9 x 1.9	0.5	45.95	40.95

### Alternative Energy – No Batteries Required

★ Web Code: NRG

2112006	MSK670	Frightened Grasshopper kit, solar powered	7	BEG	—	0.1	\$10.95	\$9.95
2128340	OWI-750	Salt Water Fuel Cell Car, magnesium metal sheet (3 incl.), provides 5-7 hrs continuous play	20	BEG	—	0.5	14.95	13.95
2097521	MSK610	6-in-1 Educational Solar kit, create a solar car, airboat, windmill & more, no tools required	33	BEG	4.75 x 2.4 x 3.4	0.5	19.95	17.95
2111978	MSK613	3-in-1 Solar Stallion, peagagus, chariot	104	BEG	—	0.5	19.95	17.95
2111986	MSK614	T3 Transforming Solar Robot, create a solar tank, scorpion or robot	71	BEG	9.8"Dia. x 3.6"H	0.5	19.95	17.95
2112090	MSK679	The Solar System Solar kit, build, paint and watch the solar system come to life using solar energy	70	BEG	4.4 x 3.7 x 3.2	0.5	19.95	17.95
2114554	75021	This kit allows you to explore the wind as alternative energy featuring loop wing design	50	INT	—	1.1	66.95	63.95


### Miscellaneous

2128243	1089	Plastic bracket pair for 0.94x0.39x0.47" micro metal gearmotors, such as 2128219 (see web)	10	BEG	—	0.1	\$5.95	\$5.25
2128251	1090	Wheel pair, 1.65"Dia. x 0.75"W, designed to fit shaft of micro & mini metal gearmotors	14	BEG	1.65 x 0.75	0.1	7.95	7.25
358299	70100	Tank and Track Wheel set, 3 track lengths	40	BEG	—	0.5	9.95	8.95
2128366	OWI-371	Aluminum T-Rex kit, soft, pre-punched aluminum parts, tools included	86	BEG	8.3 x 2.5 x 3.4	0.2	12.95	11.95
2119734	C-9701	20 second voice recorder, assembled, 1 msg.	1	BEG	1.4 x 0.9 x 0.5	0.1	14.95	13.49
2124218	MKEL4	The learn to solder flashing siren kit teaches you the basics of soldering & includes 30W iron, wire cutters and solder. 9V battery not included	25	BEG	—	0.8	18.95	17.95
358432	TELCMD-USB	Telecommander Software	1	BEG	—	0.2	19.95	17.95
2128438	EDU-61007	Leonardo da Vinci kit, Paddleboat, snap-together replica with educational manual	19	BEG	10.5 x 9.0 x 3.2	1.0	19.95	18.95
2128446	EDU-61009	Leonardo da Vinci kit, Catapult, snap-together replica with educational manual	17	BEG	10.5 x 9.0 x 3.2	1.0	19.95	18.95
2128462	EDU-61010	Leonardo da Vinci kit, Bombard, snap-together replica with educational manual	18	BEG	10.5 x 9.0 x 3.2	1.0	19.95	18.95
2124200	MKEL8	This kit teaches the fundamentals of fiber optics. You can transmit your voice or a 1kHz signal through the 3 ft. fiber optic cable	56	BEG	—	0.4	31.49	29.95
2128227	1218	Wheel & Encoder set, 1.65x0.75" wheels; brackets & hardware included, recommend motor 2128219	14	BEG	1.65 x 0.75	0.1	39.95	37.95
404419	165441	Serve tea with this mechanical wind-up Tea Serving Robot	1	BEG	10.0"H x 4.0"W	2.1	79.95	69.95
358336	70144	Ball Caster set, adjustable height	60	INT	—	0.6	5.95	5.49
2114538	72004	Worm Gearbox, Hi-eff kit, 216 & 336:1	58	INT	3.0 x 3.2 x 1.2	0.3	14.95	13.49
2114520	70108	Tracked Vehicle Chassis kit, 2 gear radios	57	INT	2.8 x 2.4 x 1.0	0.6	19.95	18.95
358213	72001	Planetary Gearbox kit, 8 different ratios	—	INT	—	0.4	19.95	17.95
127554	K6400	Code Lock kit, 9 digits, 3000 codes	67	INT	1.7"L x 1.8"W	0.5	29.95	25.95
357683	3-203	Frankenserial Interface kit	25	—	—	0.1	39.95	35.95
128910	K6714	Universal relay card kit, switch large currents using electronic control	37	INT	5.9 x 8.4	1.8	119.95	113.95
2114511	72102	Gearhead motor with 130 pin spike tire kit (2-unit)	57	INT	—	1.9	159.95	143.95
2114546	70168	Double Gearbox, 4-speed, independent left/right	116	EXP	—	0.3	12.95	11.95
645263	VM110	Control your electronics from your computer w/ this USB Interface, 7 inputs and 10 outputs	1	EXP	5.7 x 3.0 x 0.8	0.6	89.95	79.95

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Transforming Solar Robot

2111986




Solar System

2112090




Aluminum T-Rex Kit

2128366




Voice Recorder

2119734




Flashing Siren Kit

2124218




Leonardo da Vinci, Catapult

2128446




Fiber Optics Kit

2124200



Worm Gearbox

2114538




Tracked Vehicle Chassis

2114520




Gearhead Motor

2114511



Double Gearbox

2114546



USB Interface

645263



PARALLAX

## Kits and Modules

For Additional BASIC Stamp Modules, See Page 11

Parallax's mission is to provide the electronics industry with products that are technically innovative, unique and economical. Parallax designs and manufactures microcontroller development tools and small single-board computers. Parallax Inc. current product line consists of BASIC Stamp microcontrollers and development software, SX chips and programmers/debuggers, Propeller chips and tools, project boards, robotics kits, educational tools and sensors. The BASIC Stamp and BASIC Stamp2 are geared more towards beginners and novices, whereas the Propeller is better suited for more advanced users with programming experience. Not sure where to begin? Try one of the starter kits to familiarize yourself with the BASIC Stamp or Propeller series microcontroller.

★ Web Code: PAR



### Kits, Protoboards and Development Boards – BASIC Stamp Series

Part No.	Mfr. Part No.	Description	1	5
661116	27297	StampWorks Experiment kit, 35 projects based on the BASIC Stamp, includes Parallax Professional Development Board	\$289.95	\$259.95
357270	27400	Mini SumoBot Robot kit, uses BASIC Stamp 2, learn to program autonomous control	189.95	169.95
387971	27807	BS2 Educational Starter Kit, USB version, includes Board of Education, BASIC Stamp 2 module & guide to complete over 40 activities	159.95	\$149.95
282829	27207	BS2 Educational Starter kit, serial version, includes Board of Education, BASIC Stamp 2 module & guide to complete over 40 activities	159.95	149.95
282933	28132	Serial BOE-BOT full kit, completely reprogrammable and uses a BASIC Stamp module, expandable for different robotic projects	159.95	143.95
387997	28832	USB BOE-BOT full kit, completely reprogrammable and uses a BASIC Stamp module, expandable for different robotic projects	159.95	143.95
387938	28119	Understanding Signals kit, includes 144-page guide, parts and USB oscilloscope; learn how to generate, view and measure a variety of wave forms	159.95	154.95
481975	28136	Scribbler 2 Robot, serial version, reprogrammable and can perform light-seeking, object detection, object avoidance, line-following and art, insert a Sharpie marker and it scribbles as it drives. Make it write your name!	129.95	123.95
2109165	28803	Board of Education full kit, USB version, includes carrier board, BASIC Stamp 2 module, designed for those already familiar with programming Stamp modules	99.95	89.95
2109202	90005	BASIC Stamp activity kit, learn electronics and programming, includes What's a Microcontroller guide and components for over 40 hands-on activities, includes USB to serial adapter & homework board w/ BASIC Stamp 2 MCU	99.95	94.95
2110596	27112	BASIC Stamp 1 project board, features SMT Stamp 1 MCU, 9V battery clip and solderless breadboard; DB9 serial connector	39.95	35.95
130921	27120	BASIC Stamp 2 carrier board, features 24-pin DIP socket for BS2, BS2E, BS2SX, BS2P24, BS2PX24, Spin Stamp and Javelin modules; board has through-hole area and 9V battery clip; DB9 serial	15.95	14.95



### Kits, Protoboards and Development Boards – Propeller Series

Part No.	Mfr. Part No.	Description	1	5
2099673	28980	Stingray Robot kit, programmable multicore Propeller chip, USB interface, eight 32-bit cores, 64K EEPROM, 5V I/O translators, 2-wheel differential drive system, advanced aluminum platform, requires 6 AA batteries (not included)	\$299.95	\$279.95
2007126	32111	Propeller Professional Development Board, 40-pin DIP socket for P8X32A-D40, variety of LEDs, buttons and typical devices and circuitry are built in for rapid project development, USB interface	169.95	152.95
2007100	32305	Propeller Education kit, 40-pin DIP version, includes plastic storage box, Propeller fundamentals book, 40-pin propeller chip, USB to serial plug, interconnecting breadboard and various components	124.95	114.95
2007097	32300	Propeller Starter kit, includes Propeller demo board, manual and USB A to mini B cable, board is pre-wired to connectors for PS/2 mouse/keyboard, VGA monitor and speakers	99.95	89.95
2109721	32100	Propeller Demo Board, demonstrate Propeller's varied capabilities in a compact and fun platform. Use it to learn programming and develop full-blown applications which generate sound and video. USB/serial	83.95	79.95
2007118	32812	Propeller Proto Board, Features P8X32A-Q44 propeller, 64K EEPROM, USB programming interface, large prototyping area, access to all 32 I/O pins, sockets for 4 servos, LM1086 5V and 3.3V regulators	39.95	34.95

### Sensors, Modules & Accessories

For more Sensors, see pg 92-94

Part No.	Mfr. Part No.	Description	1	5
2082855	27800	Modular 2-axis joystick, dual 10k pot with common ground, 1.64"x1.2"x1.1"	\$4.95	\$4.75
2124509	27904	C2H5OH (alcohol/benzene) gas sensor module, 4-pin SIP, TTL, 5VDC @ 60-250mA	34.95	32.95
2082901	27920	HS1101 Humidity Sensor, 5VDC to 10VDC, 0.25"x0.40" Dia., -40°F to 212°F	6.95	6.25
2082919	27922	Gyroscope Module, ±300°/s full scale, 3.4VDC to 6.5VDC @ 5.25mA	39.95	34.95
2110035	27925	µOLED display module, 1.5" diagonal, 128x128 pixel resolution, 262K colors	79.95	74.95
2109368	28024	USB to serial development tool, 5VDC, FTDI chip in-circuit	22.49	21.49

Product Search:

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PARALLAX

## Sensors, Modules, RFID & Wireless Interface Devices

**NEW**  
MARKED IN PINK

★ Web Code: PAR



2082880



2082863



2082871



2109499



2007185



2109229



2109667



2123549



653651

### Sensors, Modules & Accessories (Continued)

For more Sensors, see pg 92-94

Part No.	Mfr. Part No.	Description	1	5
2082880	27930	CH4 gas sensor, 5VDC@165mA (sense mode) TTL compatible input and output	\$32.95	\$29.95
2082863	27931	CO gas sensor, 5VDC @ 165mA TTL compatible input and output	32.95	29.95
2082871	27932	LPG gas sensor, 5VDC @ 175mA (sense mode) TTL compatible input and output	32.95	29.95
2109499	28026	H48C 3-axis accelerometer, serial SPI, 5VDC, ±3g, free-fall detection	38.95	36.95
2007185	28028	Sensor Sampler kit, includes sensor temp. and humidity sensor, flexiforce sensor ultrasonic sensor, PIR proximity sensor, Hitachi HM55B compass module	179.95	174.95
2109229	28146	GPS receiver module, 5VDC, 4800bps TTL, track 12 satellites, 4-pin header	89.95	85.95
2109667	28526	3-axis accelerometer, digital output, SPI or I2C, sensitive select ±2g/±4g/±8g	34.95	32.95
2123549	28560	Mouse Sensor kit, 2-wire serial, compatible w/ BS2, SX & Propeller microprocessors	21.95	20.95
653651	29123	HM55B compass module, compatible with most microcontrollers	29.95	26.95
2109747	29140	Introduction to sensor kit, includes distance, compass, proximity, multi-axis	99.95	89.95
2111943	29323	HMC6352 Compass module, 2-axis, 2-wire I2C, 6-pin DIP, 0.46" x 0.59" x 0.54"	33.59	31.95
2109149	30080	Say It voice recognition module, 32 user definable commands	89.95	85.95
2110060	32311	Propeller accessories kit (PS/2 keyboard and mouse, display) 3.5" NTSC/PAL LCD compatible display, for P/N 2007126	149.95	142.95
2082935	32313	SD card adapter, SPI communication	19.95	17.95
2109691	350-00014	Infrared receiver, 38kHz carrier freq. found in Boe-Bot and SumoBot kits	4.49	4.25
2109587	555-27401	QTI line sensor, IR emitter/detector, 5VDC, analog/digital output	7.95	7.49
2082927	555-28027	PIR Sensor kit, single bit high/low output, detection range up to 20 ft.	9.95	8.95
2109413	570-28015	PING Mounting Bracket kit, includes Parallax standard servo, use w/ 282861	29.95	26.95
282861	28015	Ping Ultrasonic Range/Distance Finder, 0.5" – 10 ft., 5VDC	29.95	27.95
2082898	27929	CO2 gas sensor module, 4-pin SIP, 6.5-15V @ 160mA	39.95	37.95
2109624	28109	Boe-Bot/SumoBot wheel & tire set, 1 wheel & 2 rubber band tires	3.95	3.75
2109763	605-00004	Piezo film vibration sensor, use as flexible switch, freq. response device	2.49	2.39
2109456	28030	USB to serial (RS-232) adapter, DB9 male & USB mini-B port, use cable 2081481	18.95	17.95



2109747



2111943



2109149



2110060



2082935



2109691



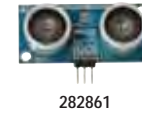
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2082927



2109413



282861



2082898



2109763



2109456



2109659



2099104



2007193



2123477



2123493

### Motor / Servo Controllers

For Servo Motors, refer to pg 104

Part No.	Mfr. Part No.	Description	1	5
2109659	27969	USB BiSTEP Motor Controller, up to 2 unipolar 4-pole stepper motors	\$134.95	\$129.95
2099104	28830	Propeller Servo Controller, P8X32A-M44 propeller chip on-board	49.95	47.95
2007193	29144	HB-25 Motor Controller, 6VDC min. to 16VDC max motor supply	49.95	44.95

### RFID and Smart Card Read/Write Modules and Tags

Use these modules for a variety of hobbyist and commercial applications, including data storage, access control, user identification, robotics navigation, inventory tracking, payment systems, car immobilization, or security systems.

Part No.	Mfr. Part No.	Description	1	5
2123477	32320	Smart card R/W, dual-row SIP, compatible w/ Stamp® and Propeller™	\$9.95	\$9.49
2123485	32321	Smart card, 256 bytes serial EEPROM, 2.5ms write time	.95	.89
2123493	32322	Smart card, 2KB serial EEPROM, 5ms write time	1.25	1.19
2123506	32323	Smart card, 256 bytes serial EEPROM, 5ms write time	.95	.89
2123514	28440	RFID read/write module, serial, use card 2123522, supports passive tags	49.95	47.49
2123522	28441	RFID tag (R/W), 116 bytes user data to EEPROM, use only w/ 2123514	2.49	2.39
2007169	32390	RFID Reader kit, serial card reader, includes 4 different passive tags	49.95	46.95
2007177	32395	RFID Reader kit, USB card reader, includes 4 different passive tags	64.95	59.95
2109739	28141	RFID passive tag, 54mm x 85mm rectangle, EM-4100 family	.95	.85
2110887	28142	RFID passive tag, 25mm round, EM-4100 family	.95	.85
2110633	32397	RFID passive tag, 25mm round, EM-4100 family	.95	.85
2109851	28161	RFID passive tag, blue eye key fob, EM-4100 family	.95	.85
2128104	LP-2010	RFID design lab, serial or USB interface w/ RFID chip board, includes USB cable	549.95	524.95



2123514



2007169



2007177



2109739



2110887



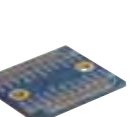
2110633



2109851



2113421



2113412



2113375



2113391



2119961

### Wireless Interface Devices

Part No.	Mfr. Part No.	Description	1	5
2113421	32400	Xbee adapter board, USB interface, PCB mount, 0.1" spacing, soldering required	\$27.95	\$25.95
2113412	32403	Xbee adapter board, 0.1" spacing, PCB mount, soldering required	3.49	3.25
2113375	32404	Xbee chip antenna, 1mW, 2.4GHz, 300' line of sight, 802.15.4 network	26.95	24.95
2113391	32406	Xbee chip antenna, 60mW, 2.4GHz, <1 mile range line of sight, 802.15.4	46.95	43.95
2119961	SE1200A-DIP	DataBridge, I/O transceiver, 6 digital I/O, 2 analog I/O, UART Tx/Rx, 2.4GHz, 1mW, 0.625 mile, int. ceramic antenna	86.95	79.95

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## Wireless Interface Devices & Embedded Networking Solutions

★ Web Code: PAR

### Wireless Interface Devices (Continued)

Part No.	Mfr. Part No.	Description	1	5
2119970	SE1200D-DIP	DataBridge, I/O transceiver, 6 digital I/O, 2 analog I/O, UART Tx/Rx, 2.4GHz, 100mW, 2.5 mile, SMA connector	\$99.95	\$94.95
2109384	27982	433MHz RF Transceiver module, 1200-9600bps transfer rate, 250 ft. line of sight range	39.95	37.95
2123573	32402	Xbee, adapter, 2 x 5 dual SIP, 3.3/5V, serial pass-through	29.95	28.49
2123581	32409	Xbee, zigbee series 2 1.25mW, wire antenna, <400 ft.	31.95	29.95
2123590	32408	Xbee, zigbee series 2 pro, 63mW, wire antenna, <2 mile	46.95	43.95
2123611	32401	Xbee adapter board, 3.3/5V, Vreg & Logic converter included	15.95	14.95
2123901	SE1200E-DIP	Databridge, I/O transceiver, 6 digital I/O, 2 analog I/O, UART Tx/Rx, 2.4GHz, 100mW, <2.5 mile external UFL connector	99.95	94.95



### Embedded Networking Solutions

★ Web Code: WHZ

Part No.	Mfr. Part No.	Description	1	5
2124365	WIZ810MJ	Plug-in network module having W5100, usable without H/W design for W5100 transformer and RJ-45, supports MCU BUS and SPI interface	\$27.95	\$25.95
2124322	WIA110SR	Serial to ethernet module, 10/100Mbps ethernet max 230Kbps serial	32.95	30.95
2124373	WIZ200WEB	Embedded web server module having Atmega128 & W5300, operates as HTTP server, supports 10/100Mbps ethernet	44.95	41.95
2124357	WIZ610WI	Ethernet to wireless bridging enable wired network, stand-alone typed 802.11b/g wireless LAN module, 54Mbps data rate and max. 20Mbps effective data*	45.95	42.95
2124381	WIZ140SR	Connect with the serial device directly, supports 4 RS-232 serial ports, 10/100Mbps, ethernet interface, max. 115, 200bps serial interface*	69.95	64.95
2124331	WIZ1000	Connects directly to serial device adding network functionality, 10/100Mbps ethernet max 230Kbps serial	89.95	84.95
2124349	WIZ6000	Serial to WiFi, ethernet to WiFi, 1RS 232, RJ-45 and standard 802.11b/g wireless interface, 54Mbps effective data transmission	154.95	144.95



\* Eval boards available at [www.Jameco.com](http://www.Jameco.com)



## Arduino Microcontrollers, Kits, Shields & Accessories

Arduino is an open-source physical computing platform based on a simple microcontroller board. Create interactive objects that can read inputs from a variety of switches, sensors, and computers to control lights, motors, and other physical outputs. The shields are expansion boards that sit atop an Arduino and broaden the functions, from motor control to prototyping.



### Microcontroller Boards

★ Web Code: ARD

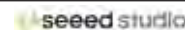
Part No.	Manufacturer	Mfr. Part No.	Description	Dimension (L" x W" x H")	Pricing	
					1	5
2121105	Arduino	A000046	Uno ATmega328, 14 digital I/O, 6 analog I/O, USB, ICSP, 32KB flash, replaced duemilanove	2.7 x 2.1	\$29.95	\$28.49
2121113	Arduino	A000047	Mega 2560, ATmega 2560, 54 digital I/O (14 PWM), 16 analog in, 4 UART, shield compatible	4.3 x 2.1 x 0.6	64.95	59.95
2121121	Arduino	MSGSA	Getting Started kit w/ book, includes Arduino Duemilanove, no soldering required	—	69.95	66.49
2121148	Arduino	A000005	Nano, ATmega328, 14 digital I/O (6 PWM), 8 analog in, USB mini-B, .7"x 1.7"	0.7 x 1.7	34.95	33.49
2124251	Secret Labs	MKND01	Netduino, ATmega 32-bit micro, 128KB flash, 14 digital I/O, 6 analog in, GPIO	2.8 x 2.1 x 0.5	39.95	37.95
2115768	Solarbotics	KARDW	Arduweeny microcontroller kit, Arduino-compatible, ATmega328, 7+ pieces, assembly/soldering req.	1.6 x 0.54	13.95	13.25

### Shields for Arduino (Arduino sold separately)



Part No.	Manufacturer	Mfr. Part No.	Description	Dimension (L" x W" x H")	1	5
2121130	Adafruit	MKAD7	MotorShield kit, control up to 4 DC motors, servos. 4 H-bridges, motors not included, soldering required	2.7 x 2.1	\$24.95	\$22.49
2128534	Robot Power	MEGAMOTO	High-power motor controller, 5-28V, 13A/30A peak, H-bridge or dual half-bridge	2.7 x 2.1 x 0.5	59.95	56.95
2124242	Arduino	A000056	Ethernet shield, RJ45 connector, customizable Mac® & PC, not-compatible with Arduino Mega	2.7 x 2.1	59.95	56.95
2124293	Nootropic Design	MKNTD1	EZ-Expander shield, 13 additional output pins, soldering required	2.1 x 1.2	17.49	16.75
2124314	Adafruit	MKAD6	ProtoShield, 0.1 x 0.1" grid, DIP ICs to 20-pins, upto 14 SOIC parts, ICSP header	2.7 x 2.1	18.95	17.95

### Accessories, Chassis and Miscellaneous Kits



Part No.	Manufacturer	Mfr. Part No.	Description	Dimension (L" x W" x H")	1	5
2124226	Spikenzie Labs	MKSKL5	Povard Kit, "Persistence of Vision", 8 bright LEDs, 24 char. msg., Arduino req. to program	8.0 x 1.25	\$37.95	\$35.95
2124277	Maker Shed	MKSEED7	Aluminum Mobile Platform, 2WD Arduino compatible, 2 x 3-6VDC motors, 27.6"/sec	6.7" diameter	56.95	53.95
2124285	Maker Shed	MKSEED8	Aluminum Mobile Platform, 4WD Arduino compatible, 4 x 3-12VDC motors, 35"/sec	7.9 x 6.7 x 4.1	62.95	59.95
2124234	PowerSwitch Tail	MKPS01	Power cord switch, control outlet with microcontroller, 3-prong, 10A@125VAC, 5V ctrl. signal	3.0 x 2.0	23.95	22.75
2121156	Seeed Studios	MKSP8	Electronic Brick Starter kit, 16x2 LCD, 5 sensor/switches, LEDs, sensor chassis, Arduino not included	—	49.95	47.49
2117341	Solarbotics	50512	Basic breakout board, 3.3/5V, FTDI mini USB-B to serial 6-pin, works w/ Arduino & clone 5V Arduino boards	1.4 x 0.65 x 0.25	19.95	18.95

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 189.



## DIY Workshop - Web Supported Kits & Projects

**NEW**  
MARKED IN PINK

### Circuit Skills #1 - Etch Your Own Circuit Board

Learn how to transfer a schematic to a circuit board using the photo-resist method. This kit includes a 32 oz. bottle of etch solution (P/N 616438, pg 161), positive developer solution (P/N 156734, pg 166), and two 3" x 4" pre-coated circuit boards (P/N 156751, pg 166). Not sure where to start? Head over to the Jameco Workshop page and watch the video to give you some ideas.

[www.Jameco.com/circuit](http://www.Jameco.com/circuit)

Part No.	Description	1	5
2113244	Circuit board etching kit .....	\$46.95	\$42.49

### Mini Drill Bit Kit

Drill the perfect thru-hole sized holes into your circuit and protoboards with the mini drill bit kit. It includes the drill stand (P/N 26711, pg 152), a 2,000 rpm mini drill (P/N 26702, pg 152), one 0.076" drill bit (Size 48, P/N 1919561, pg 152), and one 0.04" drill bit (Size 59, P/N 16580, pg 152). To see the drill in action, check out the video in the circuit board etching kit linked above.

Part No.	Description	Price
2113252	Mini drill bit kit .....	\$54.95

### Circuit Skills #2 - Enclosures

You may be a whiz putting electronic kits together, but how about protection? A good kit, especially one used one a regular basis, deserves a good enclosure to protect it from the elements, and we have many for you to choose from, see pg 164. The Jameco Workshop page has a video to give you plenty of pointers on using your first enclosure case.

[www.Jameco.com/enclosure](http://www.Jameco.com/enclosure)

Part No.	Description	Price
2117202	Waveform generator and enclosure kit .....	\$64.95

### Circuit Skills #3 - Perfboard Prototyping

This kit includes all of the components to create a PWM effect for your guitar. Learn about the different kinds of perfboards available so you can transfer your breadboard project to a more permanent solution. This kit uses the "pad-per-hole" perfboard design for maximum flexibility. [www.Jameco.com/perf](http://www.Jameco.com/perf)

Part No.	Description	Price
2121092	PWM guitar effect kit .....	\$25.95

### Circuit Skills #4 - SMD Experimenter

Soldering through-hole components may be fun, but most new chips are only available in SMT packages. They require less power, less real estate, but a good set of eyes, and seeing someone do it first might help too. Build a light-controlled oscillator with this kit of 1206 SMT components.

[www.Jameco.com/SMD](http://www.Jameco.com/SMD)

Part No.	Description	Price
2124197	SMT light controlled oscillator kit .....	\$29.95

### Circuit Skills #5 - LED Color Organ

Want to add some color and synced visuals to your music? Create a 3 Channel Spectrum Analyzer with this cool kit. Watch the video, take some notes, build the kit, and enjoy the fruits of your labor. The list of materials can be found on the Jameco web page for kit 2126272, but be sure to study the schematic and video before you begin.

[www.Jameco.com/organ](http://www.Jameco.com/organ)

Part No.	Description	Price
2126272	LED color organ kit .....	\$39.95

## Starter Kits

These kits include manuals, equipment, and sample projects to learn the fundamentals. Once you have the basics down, and your confidence up, challenge yourself with any one of the more advanced kits, or use your skills and create something completely new.

### Microcontroller Starter Kits

Part No.	Mfr. Part No.	Description	1	5
697338	DV164120	PICKIT 2 starter kit, easy to use interface for programming 8/14/20-pin flash type PIC MCUs .....	\$74.95	\$69.95
282829	27207	BASIC Stamp 2 educational starter kit, includes text and parts to guide you through 40+ activities .....	159.95	149.95
2007097	32300	Propeller starter kit, step-by-step introduction to programming the robust multi-core Propeller MCU .....	99.95	89.95

See more Electronic and Starter Kits on pages 179-184

### Test, Tools & Measurement

Part No.	Mfr. Part No.	Description	1	5
2113228	Solder Starter	Includes all the equipment necessary to get started soldering, see pg 158 for complete specifications .....	\$29.95	\$26.95
2099171	DMM Starter	Everything you need to get started with electronics, see pg 140 for complete specifications .....	99.95	89.95
2113236	Test lead starter	Includes the most popular test leads for your testing applications, see pg 149 for complete specifications .....	39.95	36.95
2124200	MKEL8	Learn the fundamentals of fiber optics and transmit your voice or 1kHz signal through the 3' cable .....	31.49	29.95
2124218	MKEL4	Learn to solder and assemble a flashing siren, teaches the basics of soldering, includes 30W iron .....	18.95	17.95

See more Tool Kits on pages 149 & 150

### Component Cabinet Kits and Grab Bags

Jameco offers over 20 component kits that include a component case to stay organized. We have ICs, transistors, diodes, various resistors, capacitors, potentiometers and switch kits, and nearly as many kit refill options. Each included component is listed. See page 86 for our complete selection of component kits. If you are just looking for a handful of components such as resistors, LEDs or hardware. Jameco has over 45 grab bags to keep you stocked. See page 39 for the complete selection.



85059 (Switch Kit)  
\$99.95



81841 (Capacitor Kit)  
\$79.95



135394 - Capacitors  
\$12.95



135271 - LEDs  
\$59.95



149649 - Fans  
\$9.95



55968 - Spacers  
\$14.95

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above





**NEW**  
MARKED IN PINK

## Solar Panels and Controllers

### Solar Photovoltaic Arrays

- Full-size monocrystalline solar panels can be used to charge your batteries or power your project
- 3 different panels to suit your applications • Max. power voltage: 17.8V • Open-circuit voltage: 21.6V
- Panel frames are made from aluminum for lightweight quality • Maximum system voltage: 1000VDC
- Tested under Standard Test Conditions (STC – irradiance 1000W/m<sup>2</sup>, AM 1.5 spectrum, cell temperature: 25°C)

2128497



\*Web Code: AEK



2128569

Part No.	Mfr. Part No.	Max Power (W)	Max Current (A)	Short-Circuit Curr. (A)	No. of Cells	Dimensions (L" x W" x H")	Wt. (lbs.)	1	5	25
2128497	PM-10S	10	1.35	1.48	6	14.9 x 12.4 x 1.3	5.29	\$79.95	\$74.95	\$69.95
2128569	PM-25S	25	1.35	1.50	9	25.3 x 11.1 x 1.4	7.50	164.95	149.95	134.95
2128585	PM-65S	65	3.65	4.04	36	32.8 x 21.2 x 1.4	18.96	375.95	339.95	305.95

### Power Mate Solar Charge Controllers

- Works with both 12V and 24V solar photovoltaic systems
- Protections include: overcharge, overdischarge, reverse polarity, output short circuit, and solar panel short circuit
- LED indicators for mode function and setting button for changing modes
- Max. charging voltage: 14.7V for 12V systems, 29.4V for 24V systems
- Max. discharge voltage: 10.5V for 12V systems, 21V for 24V systems



**NEW**  
MARKED IN PINK



2128593

### Solar Panel Adapter Cables

- MC4 connection from the solar panels and wire connection to the charge controllers
- Length: 12" ±0.5"



2129191: For use with charge controllers, PSC-A5 & PSC-A10

2129203: For use with charge controllers, PSC-A15 & PSC-A20

**NEW**  
MARKED IN PINK

Part No.	Mfr. Part No.	Solar Panel Power (Max.)		Output Curr. Max. (A)	Wire Range (AWG)	Dimensions (L" x W" x H")	Pricing		
		12V System	24V System				1	10	25
2128593	PSC-A05	90W @ 18V	180W @ 36V	5	12-17	5.5 x 3.5 x 1.0	\$29.95	\$26.95	\$24.95
2128606	PSC-A15	180W @ 18V	360W @ 36V	15	8-10	5.5 x 3.5 x 2.0	39.95	35.95	31.95
2128614	PSC-A20	270W @ 18V	540W @ 36V	20	8	5.5 x 3.5 x 2.0	44.95	39.95	35.95

Part No.	Mfr. Part No.	AWG	1	10	100
2129191	PCA-A0104A	12-14 ...	\$17.95	\$16.95	\$15.95
2129203	PCA-A0104B	8-10 .....	17.95	16.95	15.95

## PowerFilm.

## Foldable Solar Chargers

### Ultra Compact, Ultra Lightweight, Easy-to-Use

PowerFilm develops and manufactures thin, flexible solar panels based on a proprietary low cost, high quality production process. PowerFilm encompasses the consumer part of today's solar markets and are used for recharging consumer electronics, such as laptops, cell phones, GPS, and mp3 players.

2114474/2114482: Charge batteries, cell & satellite phone, laptop, etc. Lightweight and portable (foldable)

2114491/2114503: Thin film on plastic, truly rollable, and does not suffer from wasted over-voltage (rollable)

2108621: Charges 2 AA batteries (folds up compactly to fit into pocket) 2097133: Charges 2 AA rechargeable batteries and most small USB devices (folds up compactly to fit into pocket)

\*Web Code: FSC



2097133



**Fits in Your Pocket**

Part No.	Mfr. Part No.	Description	Operating Volt. @ Curr.	Charging Volt.	Folded/Unfolded Dimensions (in.)	1	5
2108621	AA Charger	Solar, foldable charger	3.6V @ 0.6A	—	5.5 x 3.3 x 1.4 / 5.5 x 31.5	\$79.95	\$69.95
2097133	USB + AA Charger	USB + AA charger	3.6V @ 0.4A	5V	3.25 x 5.5 x 1.38 / 24 x 5.5	79.95	74.95
2114474	F15-300N	Solar, foldable charger, 5W	15.4V @ 0.3A	12V	10.3 x 3.3 / 24.5 x 10.3	89.95	79.95
2114482	F15-600	Solar, foldable charger, 10W	15.4V @ 0.6A	12V	10.5 x 3.5 / 23.7 x 21	249.95	224.95
2114491	R15-300	Solar, rollable charger, 5W	15.4V @ 0.3A	12V	11.5 x 4 x 3.7 / 11.5 x 21	139.95	129.95
2114503	R15-600	Solar, rollable charger, 10W	15.4V @ 0.6A	12V	11.5 x 4.25 / 11.5 x 38	249.95	224.95



2114503

## PowerFilm. Flexible Thin Film Solar Modules

\*Web Code: AEK

**Wireless Electronics Series** The Wireless Electronics Series offers a new opportunity to solve the old problem of limited power for wireless electronics in portable and remote applications. This module is lightweight, paper thin and durable.

228013



Part No.	Mfr. Part No.	Operating Voltage	Operating Current (mA)	Size (L x W x T)		Pricing		
				Inches	mm	1	5	25
227985	SP3-37	3.0	22	2.5 x 1.5 x .01	64 x 37 x 0.2	\$3.95	\$3.49	\$3.15
227993	TX3-25	3.0	25	4.5 x 1.0 x .01	114 x 25 x 0.2	3.95	3.49	3.15
171061	MP3-37	3.0	50	4.5 x 1.5 x .01	114 x 37 x 0.2	5.95	5.35	4.79
228013	MPT3.6-75	3.6	50	2.9 x 3.0 x .01	74 x 75 x 0.2	7.95	6.95	6.45
228030	SP4.2-37	4.2	22	3.3 x 1.5 x .01	84 x 37 x 0.2	5.95	5.35	4.79
228056	MPT4.8-150	4.8	100	3.7 x 5.9 x .01	94 x 150 x 0.2	17.95	16.95	15.25
228064	MPT6-75	6.0	50	4.5 x 3.0 x .01	114 x 75 x 0.2	12.95	10.95	9.95
228072	MPT6-150	6.0	100	4.5 x 5.9 x .01	114 x 150 x 0.2	19.95	17.95	15.95
228099	MP7.2-150	7.2	200	10 x 5.9 x .02	253 x 150 x 0.6	39.95	35.95	31.95
228101	MPT15-75	15.4	50	10 x 3.0 x .02	253 x 75 x 0.6	19.95	17.95	15.95
228110	MPT15-150	15.4	100	10 x 5.9 x .02	253 x 150 x 0.6	39.95	35.95	31.95

### WeatherPro Series

The right choice for permanent outdoor applications that are directly exposed to the elements. These modules feature rugged construction, a UV-stabilized surface, an extra edge seal for weather protection, and tin-coated copper leads that extend from the module.

228161

Part No.	Mfr. Part No.	Operating Voltage	Operating Current (mA)	Size (L x W x T)		Pricing		
				Inches	mm	1	5	25
228161	P7.2-75	7.2	100	10.3 x 3.9 x .04	270 x 100 x 1.1	\$34.95	\$31.49	\$28.25
228179	P7.2-150	7.2	200	10.3 x 6.9 x .04	270 x 175 x 1.1	49.95	44.95	39.95
228195	PT15-150	15.4	100	10.3 x 6.9 x .04	270 x 175 x 1.1	54.95	49.45	44.49
228208	PT15-300	15.4	200	10.3 x 12.8 x .04	270 x 325 x 1.1	99.95	89.95	79.95

## 60mm Solar Panel

\*Web Code: AEK

- Clear coat plastic
- Power output: 0.25W max.
- Volt. output: 4.7VDC to 5VDC
- Size: 2.36"L x 2.36"W x 0.1"Thick
- Material: copper indium diselenide

Photovoltaic Mini Module



Part No.	Description	1	5	25
1928142	Solar panel .....	\$7.95	\$6.95	\$6.25

## Mini-Panel Solar Cells

Ready to Use! No Soldering

200221

Encapsulated mini-panels utilize solar cells similar to those that power our satellites in space, yet they are safe and simple to use. Mini-panels allow for handling without the normal breakage and cell damage associated with fragile solar cells. 6" red/black lead wires attached. Modules may be connected to create different outputs.



\*Web Code: AEK

- Connection: lead

Part No.	Cross Ref.	VDC @ mA	Size (L x W)	1	5
2113658	4-800	0.5 @ 800	3.5" x 2.5" ..	\$8.95	\$7.95
2113631	4-1.5-200	1.5 @ 200	3.5" x 2.5" ....	9.95	8.95
200221	SOL4	2.0 @ 200	3.0" x 3.7" ..	10.95	9.95
215319	4-3.0-100	3.0 @ 100	3.8" x 2.5" ..	12.95	11.95
215327	4-6.0-50	6.0 @ 50	3.8" x 2.5" ..	14.95	13.49
2113666	SC-GRAB	Solar cell grab bag .....		7.95	6.95

(min. 40pcs/bag, sizes vary)

## MONDO•TRONICS

### Flexinol Muscle Wires®

These unique nickel-titanium alloy Muscle Wires® actually shorten in length when electrically powered, and can lift thousands of times their own weight.

**How it works...** Pressing the switch lets power flow from the batteries through the Muscle Wire®, heating it and causing it to contract, raise the lever and lift the weight. When power is removed, the Muscle Wire® cools and relaxes, and the weight helps it return to its starting position.

**Includes:** Instructions



★ Web Code: **WAU**

Part No.	Mir. P/N	Length (meter)	Wire Dia. (microns)	Linear Resistance (Ω/m)	Typical Current (mA)	Deform Weight* (grams)	Recovery Weight* (grams)	Typical Rate**	Pricing	
									1	5
357561	025HT	5	25	1770	20	2	7	—	\$59.95	\$53.95
357456	025LT	1	25	1770	20	2	7	—	21.95	20.95
357931	075LT	1	75	200	100	815	80	40	18.95	16.95
357595	100HT	1	100	150	180	28	150	43	17.95	15.95
141321	100LT	1	100	150	180	28	150	33	17.95	15.95
357472	100LT	5	100	150	180	28	150	33	64.95	59.95
141874	150LT	1	150	50	400	62	330	20	17.95	15.95
160055	375LT	1	375	8	2750	393	2000	4	22.95	20.95
357712	375HT	1	375	8	2750	393	2000	5	22.95	20.95

\* Multiply by 0.0098 to get force in Newtons

\*\* Cycles per minute, in still air, at 20° Centigrade

## MONDO•TRONICS Shape Memory Alloy Kits, Book and Accessories

A long time developer of Shape Memory Alloy products including the popular Muscle Wire® products and kits. What are Shape Memory Alloys? These unique metals are made from a combination of two or more elements that exhibit hardness and elasticity properties that change radically at distinct temperatures. After alloying and basic processing, SMAs can be formed into a shape (for example a coil spring) and then set to that shape by a high heat treatment. When cooled, they may be bent, stretched or deformed (within limits) and then with subsequent moderate heating (well below the heat setting temperature), they can recover some or all of the deformation – they move when heated! Shape Memory Alloys have found use in everything from space missions to floral arrangement, to arterial stents for restoring blood flow to clogged arteries, to actuators for miniature robots, to cell phone antennas, orthodontic braces and even eyeglasses.



141313



357528



357641



357798



357835



357843

★ Web Code: **WAU**

### Muscle Wire Kits

Part No.	Product No.	Description	1	5
141313	3-001	Space Wings kit	\$19.95	\$17.95
357827	3-619	Solar Space Wings kit	23.95	21.95
357528	3-102	Muscle Wire R & D kit (5 meters each of 0.050µm, 100µm LT wire; 1 meter each of 250µm Flexinol LT wire)	225.95	199.95
357641	3-136	Muscle Wire Super Sampler kit (20cm each of 037µm, 050µm, 100µm, 150µm, 250µm)	35.95	32.35
357659	3-141	Project Book Sample kit (20cm of 50µm flexinol wire; 40cm of 100µm and 150µm LT wire)	34.95	31.45

### Book

141330	3-133	Muscle Wire Project Book, 3rd Edition	\$19.95	\$17.95
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### Wires and Springs

357798	3-401	Nitinol SMA wire (1 meter L x 500µm Dia.)	\$18.95	\$16.95
357801	3-402	Nitinol SMA wire (1 meter L x 100µm Dia.)	27.95	25.95
357835	3-462	Nitinol tension springs (4pk.) 6.5mm OD x 26.5mm L x 750µm, black	39.95	37.95
357843	3-657	Nitinol compression springs (4pk.) 8mm OD x 36mm L x 950µm, black	39.95	37.95

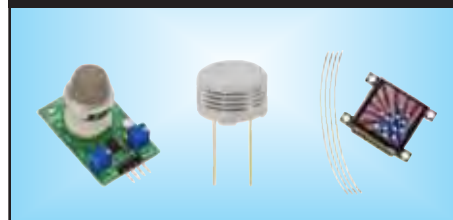
★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

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Order by Phone at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

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## For more Sensors & Modules See pgs 182-183



## PNI Vector 2X Compass Module

- Pin selectable BCD or binary output format (compatible with Motorola SPI and National Microwire)
- 2° accuracy, 1° resolution
- 3-wire serial output format
- Raw uncalibrated magnetometer output optional
- Hard iron calibration
- Master or slave capability for data clock generation
- 5Hz sampling rate

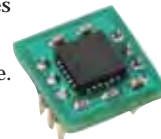


Perfect for Project Design!

Part No.	Description	1	5
126703	Compass module	\$29.95	\$26.95

## PARALLAX 7 Compass Module

This compass module provides a direct heading angle and includes internal calibration algorithms within its firmware. Temperature compensation and calibration are built in, as well as protection against stray magnetic fields.



- Wide voltage supply range (2.7–5VDC) for use with most microcontrollers
- Digital output (I2C) to nearest 0.1°
- Built-in calibration for an average error of 2.5°
- Internally calculates heading, simplifying software demands
- Compact, breadboard-friendly 6-pin DIP module package
- Low current consumption (typically 1µA in standby mode, 1mA full operation at 3VDC)

Build in Calibration!

Part No.	Description	1	5
2111943	Compass module	\$33.59	\$31.95



We offer data sheets for most of the products we carry. Find them easily on the product specification page.

[www.Jameco.com](http://www.Jameco.com)



## Thrust Washers

Use to reduce the friction that occurs in metal-to-metal contact, particularly where wheels join to axles.

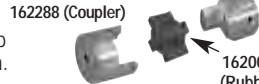


Part No.	I.D.	O.D.	# of Balls	Load Rating @ 15 RPM	1	5
401197	1/8"	.434"	6	89 lbs.	\$2.49	\$2.25
401200	3/16"	.497"	7	104 lbs.	2.49	2.25
401226	5/16"	.622"	9	134 lbs.	2.95	2.75
401234	3/8"	.809"	6	149 lbs.	2.95	2.75
401242	1/2"	.934"	8	198 lbs.	3.49	2.95

**\*Lasers Online — Enter Web Code LAZ**

## Spider Couplers

- Used with motors
- 1 set screw per hub
- Hub OD: 0.625" Dia.
- Hub length: 0.56"
- Parts sold individually



**\*Web Code: EBE**

Part No.	Description	1	10	100
162288	.125" (3.18 mm) ID hub	\$1.49	\$1.35	\$1.19
161998	.197" (5.00 mm) ID hub	1.49	1.35	1.19
162270	.250" (6.35 mm) ID hub	1.49	1.35	1.19
162000	Rubber spider	1.55	1.39	1.25

## PARALAX Roll-Flex Omni Wheel

- Multi-directional roller
- Supports up to 45 lbs.
- Open design eliminates lock-up
- Safe for all surfaces
- Compatible with Stingray Robot (P/N 2099673)
- 2120532: Aluminum axle for omni-wheel
- Tapped for two #4-40 1/4" screws

2120524



Part No.	Mfr. Part No.	1	5
2120524	Omni directional roller wheel	\$24.95	\$23.95
2120532	2" threaded aluminum axle	.89	.79

## 10-Piece Gear Assortment

- Polyethylene resin
- Gears are 0.147" bore size
- Bushings are 0.07" bore diameter
- T10, T20, T30, T40, T50 and bushing



Part No.	Description	1	5	25
1810072	Gear set - 10 pieces	\$7.95	\$6.95	\$6.25

**\*Gears Online — Enter Web Code PEF**

## Hub and 48-Pitch Gear Set

- Low coefficient of friction requires little or no lubrication
- Residual stress removed by annealing process

**168284 Includes:**

1 each of the following: 10 teeth with 3/32" bore size; 14 and 16 teeth with 1/8" bore, 20, 24, 30, 36, 44, 54, 66, 84 and 100 teeth with 1/4" bore size

Part No.	Description	1	5	25
157104	1/4" bore aluminum mounting hub with set screws	\$7.95	\$6.95	\$6.25
168284	Gear set - 12 pieces (see description above)	39.95	34.95	31.95

157104

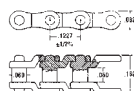


168284



## 16-Pitch Sprocket Set and Chain

- Operates in high humidity and corrosive environments
- Chain links can easily be added or removed to adjust total length
- Chain tension load: 2.0 lbs.



**168276:** 14-piece sprocket set includes 1 each of the following: 8, 9, 10 teeth with 1/8" bore size; 12, 15, 16, 18, 20, 24, 30, 32, 36, 40 and 48 teeth with 1/4" bore size

Part No.	Description	1	5	25
157075	Drive chain (12" long)	\$10.95	\$9.95	\$8.95
168276	Sprocket set - 14 pieces (see description above)	29.95	26.95	23.95



## Green Laser Pointer

Class IIIa Laser Product



Uses a wavelength closely matched to the highest sensitivity of the human eye and built w/ cutting-edge crystal technology. Projects a green beam so powerful you can see it against a clear night sky.

- Output wavelength: 532nm
- Output power: <5mW
- 90-day manufacturer's warranty

**Includes:** Metal gift box, clip and 2 AAA batteries

Part No.	Mfr. Part No.	Size (L" x Dia")	1	5
223731	5608	5.6 x 0.5	\$94.95	\$89.95



## Red Laser Pointer Pen

**Includes:** 2 AAA batteries

- Range up to 500 yards
- 670nm output wave length
- Plastic gift box



Class IIIa Laser Product

Part No.	Mfr. Part No.	Size (L" x Dia")	1	5
153605	4012	5.2 x 0.4	\$21.95	\$19.75

## Laser Diode Module

- Operates on 3VDC @ <5mW
- 650nm wavelength
- Beam diameter: 5 x 8mm
- Working dis.: over 50m (daylight), 200m (dark)
- Size: 0.9"L x 0.3"Dia
- One-year warranty



Class IIIa Laser Product

Part No.	Description	1	5
310519	Laser module, brass	\$44.95	\$39.95

## 650nm Laser Diode

- 182932: Output power - 5mW max.; operating volt. & current: 2.6V max @ 30mA; wavelength - 650nm (typ); beam divergence - 11° from center
- 2120428: Output power - 5mW min.; oper. volt. & current: 2.6V max @ 70mA; wavelength - 650nm (typ); beam divergence - 8° from center



Class IIIa Laser Product

Part No.	Product No.	1	5	25
182932	ULD-6556	\$14.95	\$13.45	\$11.95
2120428	LTLTD505T	6.95	6.25	5.49



## Spider Shaft Coupler

- 2 set screws (10-32 x 1/8")
- Size: 0.75"L x 0.5"OD



**\*Web Code: EBE**

Part No.	Description	1	5	25
138288	.250" ID sleeve coupler	\$5.95	\$5.35	\$4.79

## 650nm Line and Dot Laser Diodes

143845/173243:

- Focus adjustable with locking set screw
- Wattage: 5mW
- Oper. volt.: 3-5V
- Size: 3.3"L x 0.9"Dia.
- One-year warranty

**\*Web Code: LAZ**

JAMECO ValuePro



173243

Class IIIa Laser Product

**143845: Line laser module**

- Laser line width: 1mm
- Laser fan angle: 60°

**173243: Cross hair laser diode module**

- Laser fan angle: 60°
- Size: 3.0"L x 0.9"D
- Female 2.1mm power connector

**143837: Module regulated power supply**

- Output: 5VDC @ 100mA
- Short-circuit protection
- Input voltage: 95-125VAC or 190-250VAC switchable
- Size: 2.0"W x 1.7"D x 9.2"H
- Weight: 0.6 lbs.

**143853: Laser module mount**

- X-Y tilt, θ movement
- Built to hold laser diode on target
- Tightening screw for tilt adjustment



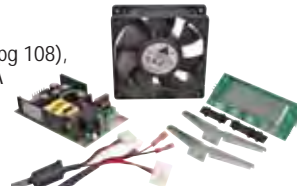
143853

Part No.	Description	1	5
143845	Line laser diode module	\$129.95	\$119.95
173243	Cross hair laser diode mod	129.95	119.95
143837	Regulated power supply	20.95	18.95
143853	Laser diode module mount	59.95	53.95

## 5-Speed Variable Fan Control with LCD Display and Power Supply

**Kit includes:**

- 12VDC fan (P/N 2099972, pg 108), 12VDC @ 5.25A
- open frame power supply (P/N 2099981, pg 126), membrane switch, power cable assembly, LCD display module and mounting brackets



**LCD Graphic Display Module:**

- On-board MC68HC90LJ12 Microcontroller
- Input voltage: 12VDC
- On/Off switch, fan speed control switch (1-5 speed), LED power indicator
- Graphic LCD digit height: 0.58"
- Optional second fan connector
- LCD module size: 4.8"W x 1.9"H

**Fan:**

- Input voltage: 12VDC @ 750mA (9W); CFM: 151.85; 55dBA; 120mm x 120mm x 38mm; 4-lead wires (tachometer and speed) 47.24"L

**Open Frame Power Supply (SBU60-105):**

- Input voltage: 90-264VAC @ 47-63Hz (5pos. 0.157" pitch connector)
- Output voltage: 12VDC @ 5.25A, 63W (6pos. 0.157" pitch connector)
- Size: 5.0"L x 3.0"W x 1.09"H

Part No.	Description	1	10
2100144	Fan kit	\$39.95	\$35.95



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You may pay by check or money order in U.S. funds, drawn on a U.S. bank.

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- Credit Department ([Credit@Jameco.com](mailto:Credit@Jameco.com))
- Technical Support ([Tech@Jameco.com](mailto:Tech@Jameco.com))  
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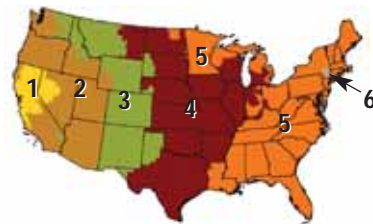
➤ RoHS compliant product

➤ Available in both RoHS and non-RoHS

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Guaranteed Delivery Time for UPS Ground (Business Days)

① day ② ③ ④ ⑤ ⑥ days

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## Motors, Drivers and Accessories

★ Web Code: POL

The Pololu line of products is made to be compact, convenient and highly dependable. Whether you're working on a project that's big or small in size, these products will save you valuable space. These products are everything you need to get your project powered and running in no time!



2128180



2128198



2128201



2128227



2128235



2128243



2128251



2128260

GET YOUR  
PROJECT MOVING!

Part No.	Mfr. Part No.	Description	1	5
2128180	1350	6-Channel USB Servo Controller. Size: 0.85" x 1.20". Supports USB, serial and internal scripting	\$24.95	\$22.95
2128198	1053	Sub-micro servo motor. Weight: 0.130 oz, for 4.8V input: 0.12 sec/60°, 8 oz-in torque	9.95	8.95
2128201	1248	Continuous rotation servo motor. Weight: 1.55 oz, for 4.8V input: 0.16 sec/60°, 45.8 oz-in torque	13.95	12.95
2128227	1218	Wheel and encoder set. Wheel size: 1.65" x 0.75". Includes: Pair of wheels, Pair of extended brackets, 2 matching encoders	39.95	37.95
2128235	755	High-Power motor driver. Bidirectional control of 1 high-power DC brush motor. Can deliver continuous 15A without a heat sink	39.95	37.95
2128243	1089	Plastic micro motor brackets. Works with P/N 2128227. Includes pair of brackets, two #2 screws and two nuts	5.95	5.25
2128251	1090	Pair of white plastic wheels with rubber tires. Size: 1.65" x 0.75", Weight: 0.557 oz.	7.95	7.25
2128260	1696	Force-sensing resistor. Decreases resistance when force is applied to the circular area. Circular area: 1/2" diameter	7.95	7.25

More Motor products on page 104



## Solar Charge Controllers

See the back cover for brand new  
Solar Photovoltaic Arrays.

- Works with both 12V and 24V solar photovoltaic systems
- Automatically identifies the output of the system and sounds an audible alarm when there is a problem
- Provides controlled operation by regulating the power going from the solar panel to the battery
- Protections include: overcharge, overdischarge, reverse polarity, output short-circuit, and solar panel short-circuit
- LED indicators for mode function and setting button for changing modes
- Connections: solar panel, battery, output
- Max. charging voltage: 14.7V for 12V systems, 29.4V for 24V systems
- Max. discharge voltage: 10.5V for 12V systems, 21V for 24V systems
- For adapter cables, visit [www.Jameco.com](http://www.Jameco.com)
- Manual control mode and light control mode
- 2128593: For use with adapter cable 2129191, pg 186
- 2128606/2128614: For use with adapter cable 2129203, pg 186



Part No.	Mfr. Part No.	Max. Solar Panel Power (12V system/24V system)	Max. Output Current (A)	Wire Range (AWG)	Size (L" x W" x H")	1	10	25
2128593	PSC-A05	90W @ 18V / 180W @ 36V	5	12-17	5.5 x 3.5 x 1.0	\$29.95	\$26.95	\$24.95
2128606	PSC-A15	180W @ 18V / 360W @ 36V	15	8-10	5.5 x 3.5 x 2.0	39.95	35.95	31.95
2128614	PSC-A20	270W @ 18V / 540W @ 36V	20	8	5.5 x 3.5 x 2.0	44.95	39.95	35.95

Complete selection of Solar products on page 186



## Multi-Purpose ABS Plastic Enclosures

These enclosures are very convenient for holding your PCB and making sure they stay safe and secure. Style I enclosures are made of durable, self-extinguishing, ABS plastic and snap together without hassle. Style C enclosures come in different packages that snap and slide together with ease. Visit [www.Jameco.com](http://www.Jameco.com) for matching covers for style C (cover not included in style C).

Part No.	Mfr. Part No.	Style	Color	Size (L" x W" x H")	1	10	50
2127865	PB-1554-BF	C	Textured, black finish	3.0 x 2.0 x 1.0	\$19.95	\$17.95	\$15.95
2127881	PB-1558-BF	C	Smooth, black finish	2.0 x 1.5 x 1.0	12.95	11.95	10.95
2127890	PB-1559-BF	C	Textured, black finish	3.0 x 2.0 x 1.5	18.95	16.95	14.95
2127902	PC-11475	I	Textured, grey surface	4.1 x 1.6 x 1.0	3.95	3.59	3.25
2127911	PC-11476	I	Textured, grey surface	5.1 x 3.0 x 1.2	4.95	4.69	4.25
2127929	PC-11477	I	Textured, grey surface	6.1 x 3.6 x 1.6	4.95	4.69	4.25



C Series



I Series

Complete selection of ABS Enclosures on page 164



## 17" Self-Grip/Wrap Velcro Straps

- Wrap around anything and sticks to itself for fast, easy bundling
- Bundle cords, cables, wires, pipes, tubing and branches (landscaping)
- Grip on one side, loop on back
- Eliminates plastic tie wraps and hardware
- Size: 17"L x 1.2"W (cut to your length)
- Reusable
- 12 pieces in pack



Part No.	Mfr. Part No.	1	10	20
2125325	WLVS-17	\$6.95	\$6.25	\$5.59

See pages 58-59 for more Cable Management products

## 120W Single Output Power Supply or Battery Charger

- Charger type for lead-acid batteries is selectable
- Voltage range: 88-132VAC/176-264VAC (47-63Hz) selected by switch
- Power: 118.7 watts
- Short circuit, overload, overvoltage, overtemperature protection
- Built-in passive PFC function
- Size: 7.09"L x 3.78"W x 1.93"H
- Weight: 2.4 lbs.



Part No.	Mfr. Part No.	Description	1	5
2102983	PB-120N-27C	Power supply/battery charger	\$66.49	\$59.95

More Battery Charger products on page 137

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

Customer Number

Or Current Resident

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## Great Products. Awesome Prices. Reach for Jameco First!



### Mean Well Power Supplies



★ Web Code: MWP

Mean Well provides a variety of power supplies and converters to suit your various needs. Jameco provides one-stop shopping for highly-efficient and highly-reliable open & enclosed switching power supplies for use around the house as well as industrial applications. Mean Well has everything from DIN mountable and green energy wall adapters to waterproof and dimming LED power supplies. For complete information on all the Mean Well series, go to [www.Jameco.com](http://www.Jameco.com) and use web code MWP.



Part No.	Mfr. Part No.	Description	Output Volt. @ Max Current	1	5
695092	NFM-10-5	Open medical power supply miniature size	5V @ 2A .....	\$14.49	\$13.25
1953786	SD-15B-05	DC/DC converter 18-36V input, built-in EMI filter	5V @ 3A .....	19.95	17.49
147045	Q-60B	Quad output power supply universal AC input	Ch.1: 5V@5.5A, Ch.2: 12V@2A, ..... Ch.3: -5V@0.5A, Ch.4: -12V@0.5A	29.95	26.95
2101121	LPC-20-350	Single output power supply universal AC input	9V-48V @ 0.35A .....	16.49	14.95
693353	S-150-9	Single output power supply switch-selectable input	9V @ 16.7A .....	39.95	34.95
217242	SDM30-24S12	DC/DC converter 18-36V input, built-in remote on-off	12V @ 2.5A .....	32.95	29.95
2129211	GS120A12-R7B	Table-top power supply built-in PFC function	12V @ 8.5A .....	69.95	64.95
2102983	PB-120N-27C	Power supply/battery charger charger-selectable	13.8V @ 7.2A .....	66.49	59.95
2105439	AD-155A	Single output power supply w/ battery charger	Ch.1: 13.8V @ 10.5A, ..... Ch.2: 13.3V @ 0.5A	64.95	54.95
373131	DRT-960-24	3-phase power supply 340-550VAC input	24V @ 40A .....	299.95	269.95
2101569	SE-1000-24	Single output pwr supply, input surge current limiting	24V @ 41.7A .....	209.95	184.95
201929	SP-150-48	Single output pwr supply, constant current limiting	48V @ 3.2A .....	39.95	35.95
216645	LPP-150-48	Open-frame power supply, built-in PFC	48V @ 3.2A .....	29.95	26.95

More Power Supply products on pages 125-134

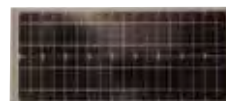


### Solar Photovoltaic Arrays

- Full-size monocrystalline solar panels can be used to charge your batteries or power your project
- Max. power voltage of 17.8V and an open-circuit voltage of 21.6V
- Panel frames are made from aluminum for lightweight quality
- Maximum system voltage of 1000VDC
- Tested under Standard Test Conditions (STC- Irradiance 1000W/m<sup>2</sup>, AM 1.5 spectrum, cell temperature 25°C)
- Various sizes to suit your applications



2128497



2128569



2128585

Part No.	Mfr. Part No.	Max. Power (Watt)	Max. Current (A)	Short-Circuit Current (A)	Number of Cells	Size (L" x W" x H")	Weight (lbs.)	1	5	25
2128497	PM-10S	10	1.35	1.48	6	14.9 x 12.4 x 1.3	5.29	\$79.95	\$74.95	\$69.95
2128569	PM-25S	25	1.35	1.50	9	25.3 x 11.1 x 1.4	7.5	164.95	149.95	134.95
2128585	PM-65S	65	3.65	4.04	36	32.8 x 21.2 x 1.4	18.96	375.95	339.95	305.95
2128614	PSC-A20	Solar charge controller (see previous page for more solar charge controller)						44.95	39.95	35.95

Complete selection of Solar products on page 186

### Contact Information

#### Order Desk 365 Days a Year

Phone: 1-800-831-4242

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